

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. IMG_1041; Taken on 01/10/14 at 13:10 hours by START GN. Freedom Industries facility



Photo No. IMG_1042; Taken on 01/10/14 at 13:10 hours by START GN. Location where storm water suspected to be contaminated with MCHM originating from under tank pad drains into Elk River.



Photo No. IMG_1043; Taken on 01/10/14 at 13:10 hours by START GN. Location where storm water suspected to be contaminated with MCHM originating from under tank pad drains into Elk River.



Photo No. IMG_1044; Taken on 01/10/14 at 13:10 hours by START GN. Floating material suspected to be MCHM in stormwater in ditch discharging to Elk river.

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. IMG_1045; Taken on 01/10/14 at 13:11 hours by START GN. Floating material suspected to be MCHM in stormwater in ditch discharging to Elk river.



Photo No. IMG_1046; Taken on 01/10/14 at 13:11 hours by START GN. Storm water pipe that conveys water underneath tank farm. Pipe is leaking. This water was discharging to Elk river.



Photo No. IMG_1047; Taken on 01/10/14 at 13:13 hours by START GN. Storm water pipe that conveys water underneath tank farm. Pipe is leaking. This water was discharging to Elk river.



Photo No. IMG_1048; Taken on 01/10/14 at 13:13 hours by START GN. Hillside where DEP reported that original release migrated toward River.

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. IMG_1049; Taken on 01/10/14 at 13:13 hours by START GN. Hillside where DEP reported that original release migrated toward River (close up).



Photo No. IMG_1050; Taken on 01/10/14 at 13:14 hours by START GN. Hillside where DEP reported that original release migrated toward River (close up).



Photo No. IMG_1051; Taken on 01/10/14 at 13:43 hours by START GN. Interceptor trench/sump constructed at bottom of the hill to contain storm water.



Photo No. IMG_1052; Taken on 01/10/14 at 13:43 hours by START GN. Storm water migration pathway to River. Water flow to River stopped after trench deepened and dug out below pipe.

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. IMG_1053; Taken on 01/10/14 at 13:43 hours by START GN. Storm water migration pathway to River. Water flow to River stopped after trench deepened and dug out below pipe.



Photo No. IMG_1054; Taken on 01/10/14 at 13:45 hours by START GN. Water in drainage path to river.



Photo No. IMG_1055; Taken on 01/10/14 at 13:45 hours by START GN. Ice at river edge with what appears to be product trapped under it.



Photo No. IMG_1056; Taken on 01/10/14 at 13:51 hours by START GN. Ice at river edge with what appears to be product trapped under it.

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. IMG_1057; Taken on 01/10/14 at 14:02 hours by
START GN. WVDEP Enforcement boat.



Photo No. IMG_1058; Taken on 01/10/14 at 14:02 hours by
START GN. WVDEP Enforcement boat.



Photo No. IMG_1059; Taken on 01/10/14 at 14:12 hours by
START GN. MCHM globules trapped under ice at edge of river.



Photo No. IMG_1060; Taken on 01/10/14 at 14:12 hours by
START GN. MCHM globules trapped under ice at edge of river.
No waterf low in drainage pathway

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. IMG_1061; Taken on 01/10/14 at 15:58 hours by START GN. MCHM globules trapped under ice at edge of river. No water flow in drainage pathway



Photo No. IMG_1062; Taken on 01/10/14 at 15:58 hours by START GN. River boom deployed in Elk river downstream of release area.



Photo No. IMG_1063; Taken on 01/10/14 at 13:58 hours by START GN. River boom deployed in Elk river downstream of release area.



Photo No. IMG_1064; Taken on 01/10/14 at 16:06 hours by START GN. River boom deployed in Elk river downstream of release area.

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001

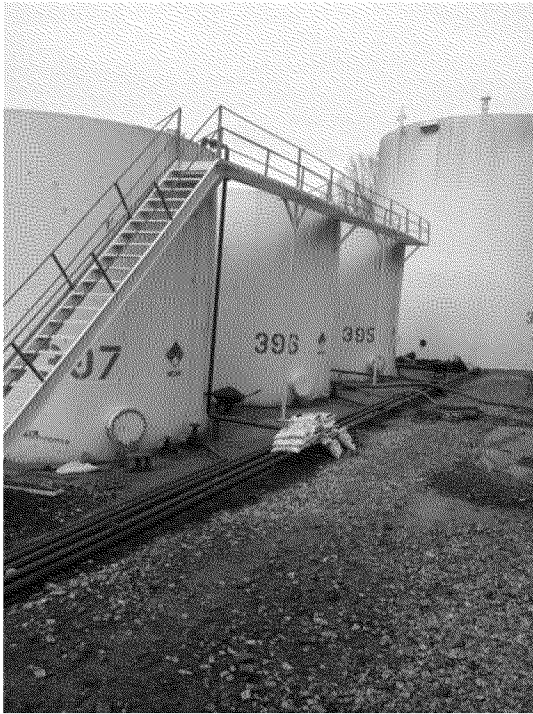


Photo No. IMG_1065; Taken on 01/10/14 at 16:06 hours by START GN. MCHM tanks.



Photo No. IMG_1066; Taken on 01/10/14 at 16:07 hours by START GN. MCHM tank 396, from which release occurred.



Photo No. IMG_1067; Taken on 01/10/14 at 16:08 hours by START GN. Other tanks in tank containment area.

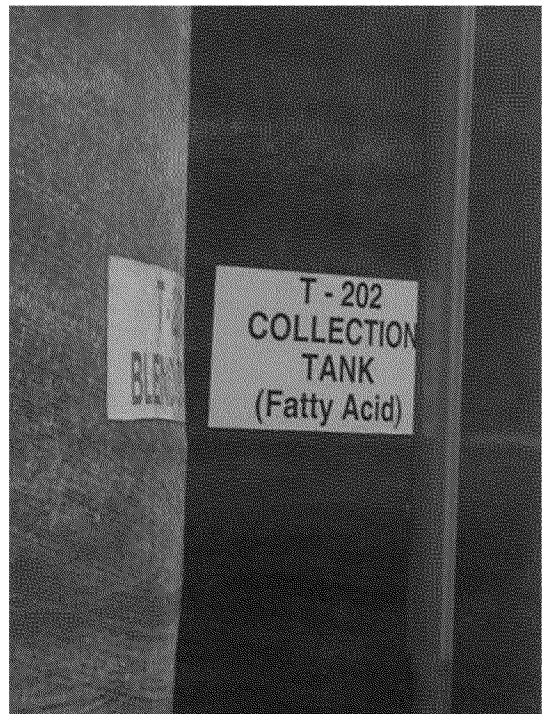


Photo No. IMG_1068; Taken on 01/10/14 at 16:18 hours by START GN. Other tanks in tank containment area.

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. IMG_1069; Taken on 01/10/14 at 16:18 hours by START GN. Vacuuming water and MCHM product from sump/hole at location of release.



Photo No. IMG_1070; Taken on 01/10/14 at 16:20 hours by START GN. Vacuuming water and MCHM product from sump/hole at location of release.



Photo No. IMG_1071; Taken on 01/10/14 at 16:20 hours by START GN. Water and MCHM product in 5-ft. sump dug inside tank containment area.

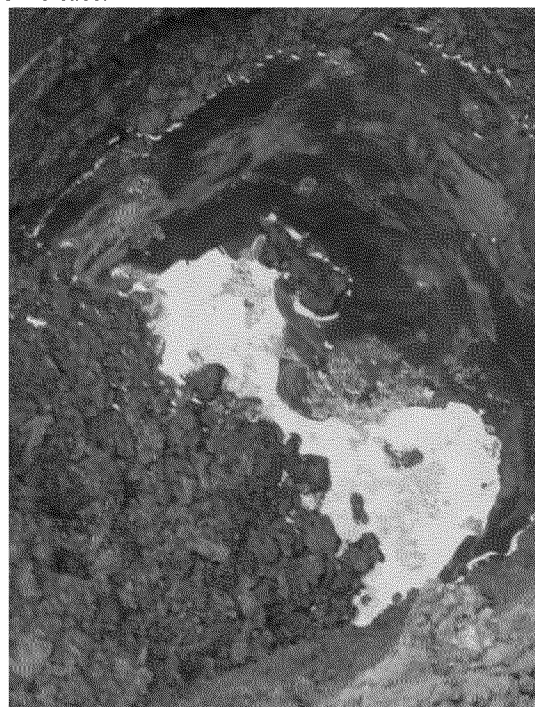


Photo No. IMG_1072; Taken on 01/10/14 at 16:27 hours by START GN. Water and MCHM product in 5-ft. sump dug inside tank containment area.

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. IMG_1073; Taken on 01/10/14 at 16:27 hours by START GN. Water and MCHM product accumulating in 5-ft. sump, entering from under a pipe.

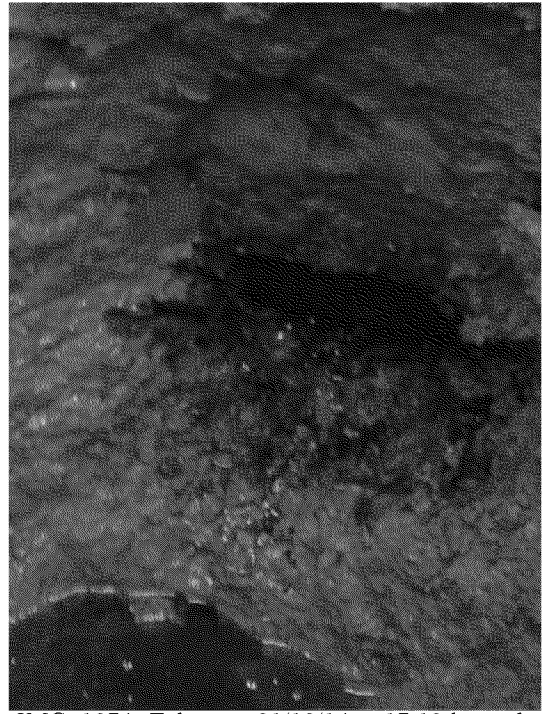


Photo No. IMG_1074; Taken on 01/10/14 at 17:10 hours by START GN. Water and MCHM product accumulating in 5-ft. sump, entering from under a pipe.



Photo No. IMG_1076; Taken on 01/11/14 at 9:37 hours by START GN. Diversified Services Vac truck.

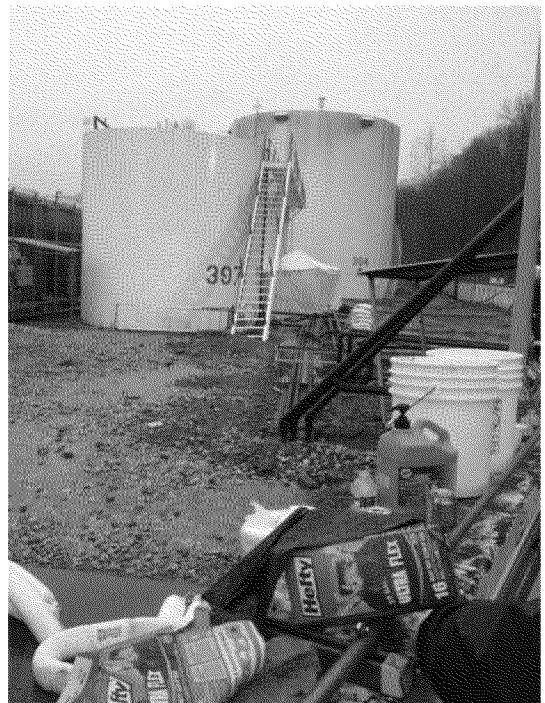


Photo No. IMG_1077; Taken on 01/11/14 at 9:38 hours by START GN. Tank containment area

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. IMG_1078; Taken on 01/11/14 at 9:47 hours by START GN. Tent set up at manway into Tank 396 (release tank).



Photo No. IMG_1079; Taken on 01/11/14 at 9:49 hours by START GN. Vacuuming water/product from hole/sump.



Photo No. IMG_1080; Taken on 01/11/14 at 9:49 hours by START GN. Sump in tank containment area.



Photo No. IMG_1081; Taken on 01/11/14 at 9:49 hours by START GN. Sump in tank containment area.

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. IMG_1082; Taken on 01/11/14 at 9:50 hours by START GN. Water and product in bottom of sump in tank containment area.



Photo No. IMG_1083; Taken on 01/11/14 at 9:51 hours by START GN. mini-excavator used to dig sumps in tank containment area.



Photo No. IMG_1084; Taken on 01/11/14 at 9:52 hours by START GN. excavated area in Tank containment area.

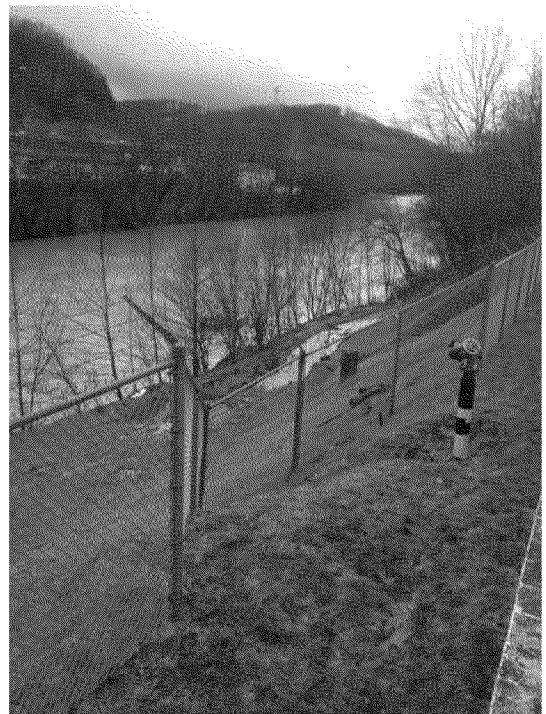


Photo No. IMG_1085; Taken on 01/11/14 at 11:24 hours by START GN. Water collection trench/sump below the tank farm.

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. IMG_1064; Taken on 01/11/14 at 9:37 hours by START GN. Boom deployed in river.



Photo No. IMG_1086; Taken on 01/11/14 at 11:24 hours by START GN. WV American water intake.



Photo No. IMG_1087; Taken on 01/11/14 at 11:25 hours by START GN. Pre-existing river boom at WV American water intake.



Photo No. IMG_1088; Taken on 01/11/14 at 11:25 hours by START GN. WV American water intake.

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. IMG_1089; Taken on 01/11/14 at 11:27 hours by
START GN. WV American water intake.



Photo No. IMG_1090; Taken on 01/11/14 at 11:28 hours by
START GN. WV American water intake.



Photo No. IMG_1091; Taken on 01/11/14 at 12:21 hours by
START GN. Pre-existing river boomat WV American water
intake.



Photo No. IMG_1092; Taken on 01/11/14 at 12:21 hours by
START GN. River boom deployed in Elk river.

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. IMG_1093; Taken on 01/11/14 at 12:21 hours by
START GN. River boom deployed in Elk river.



Photo No. IMG_1094; Taken on 01/11/14 at 12:22 hours by
START GN. River boom deployed in Elk river.



Photo No. IMG_1095; Taken on 01/11/14 at 12:24 hours by
START GN. River boom deployed in Elk river.



Photo No. IMG_1096; Taken on 01/11/14 at 12:24 hours by
START GN. Debris collected in river boom in Elk River.

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. IMG_1097; Taken on 01/11/14 at 12:25 hours by START GN. River boom deployed in Elk river.



Photo No. IMG_1098; Taken on 01/11/14 at 12:25 hours by START GN. Debris and MCHM product collected in river boom in Elk River.



Photo No. IMG_1099; Taken on 01/11/14 at 12:26 hours by START GN. Debris and MCHM product collected in river boom in Elk River.

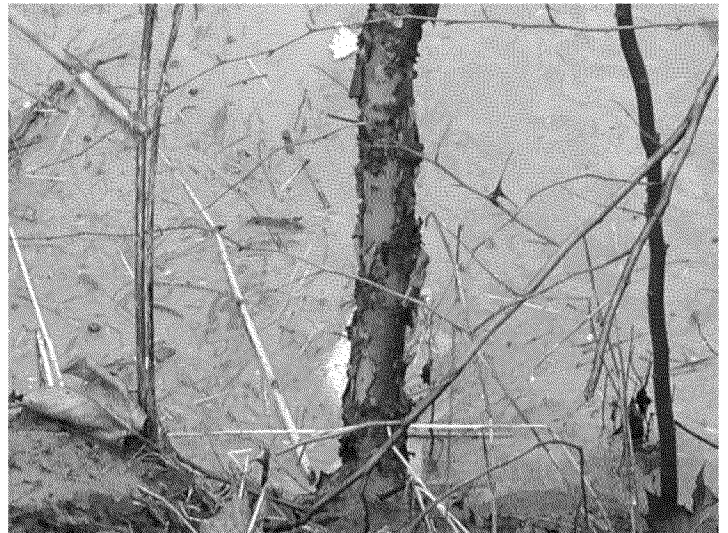


Photo No. IMG_1100; Taken on 01/11/14 at 12:27 hours by START GN. Debris and MCHM product collected in river boom in Elk River.

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. IMG_1101; Taken on 01/11/14 at 12:29 hours by START GN. Debris and MCHM product collected in river boom in Elk River.



Photo No. IMG_1102; Taken on 01/11/14 at 12:29 hours by START GN. Debris and MCHM product collected in river boom in Elk River.



Photo No. IMG_1103; Taken on 01/11/14 at 12:29 hours by START GN. Debris and MCHM product collected in river boom in Elk River.



Photo No. IMG_1104; Taken on 01/11/14 at 12:34 hours by START GN. Debris and MCHM product collected in river boom in Elk River.

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. IMG_1105; Taken on 01/11/14 at 12:34 hours by START GN. Containment trench lined with poly, but not to full extent of area under water.



Photo No. IMG_1106; Taken on 01/11/14 at 12:35 hours by START GN. Containment trench lined with poly.



Photo No. IMG_1107; Taken on 01/11/14 at 12:35 hours by START GN. Drainage path to River from storm water outlet. No water flow in ditch.



Photo No. IMG_1108; Taken on 01/11/14 at 12:39 hours by START GN. Drainage path to River from storm water outlet. No water flow in ditch.

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. IMG_1109; Taken on 01/11/14 at 12:40 hours by START GN. stormwater leaking from pipe on hillside below tank farm.



Photo No. IMG_1110; Taken on 01/11/14 at 12:40 hours by START GN. Water accumulated in trench/sump.



Photo No. IMG_1111; Taken on 01/11/14 at 12:40 hours by START GN. Water accumulated in trench/sump.



Photo No. IMG_1112; Taken on 01/11/14 at 12:40 hours by START GN. Water accumulated in trench/sump.

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. IMG_1113; Taken on 01/11/14 at 12:42 hours by START GN. Water flowing into collection trench/sump.



Photo No. IMG_1114; Taken on 01/11/14 at 13:01 hours by START GN. Clean Harbors deploying river boom.



Photo No. IMG_1115; Taken on 01/11/14 at 13:01 hours by START GN. Cinder block containment wall.



Photo No. IMG_1116; Taken on 01/11/14 at 13:07 hours by START GN. Water within tank containment area.

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. IMG_1117; Taken on 01/11/14 at 13:07 hours by START GN. Bentonite placed along cinderblock containment wall in tank farm where MCHM was reported to have released.



Photo No. IMG_1118; Taken on 01/11/14 at 14:51 hours by START GN. Bentonite placed along cinderblock containment wall in tank farm where MCHM was reported to have released.



Photo No. IMG_1119; Taken on 01/11/14 at 14:51 hours by START GN. WV American water intake with sorbent boom deployed by Clean Harbors.



Photo No. IMG_1120; Taken on 01/11/14 at 14:54 hours by START GN. WV American water intake with sorbent boom deployed by Clean Harbors.

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. IMG_1121; Taken on 01/11/14 at 14:54 hours by START GN. WV American water intake with sorbent boom deployed by Clean Harbors.



Photo No. IMG_1122; Taken on 01/11/14 at 14:55 hours by START GN. WV American water intake with sorbent boom deployed by Clean Harbors.



Photo No. IMG_1123; Taken on 01/11/14 at 14:56 hours by START GN. WV American water intake with sorbent boom deployed by Clean Harbors.



Photo No. IMG_1124; Taken on 01/11/14 at 15:53 hours by START GN. WV American water intake with sorbent boom deployed by Clean Harbors.

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001

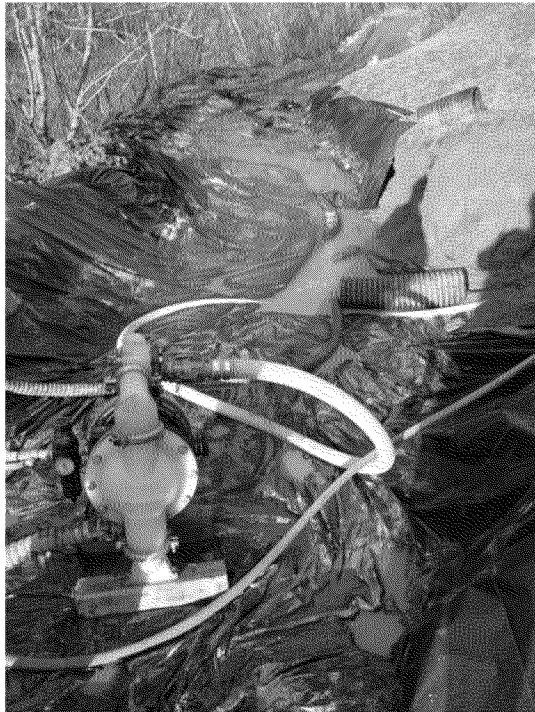


Photo No. IMG_1125; Taken on 01/11/14 at 15:53 hours by START GN. Pump set up at sump/collection trench to assist vac truck in pumping water.

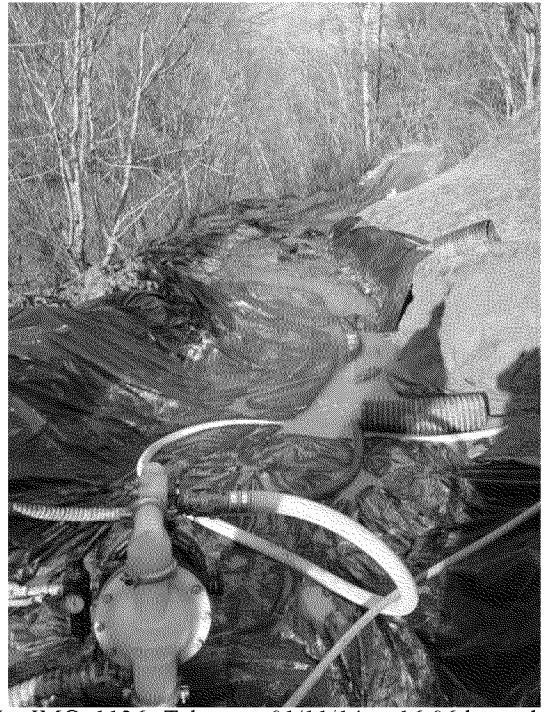


Photo No. IMG_1126; Taken on 01/11/14 at 16:06 hours by START GN. Pump set up at sump/collection trench to assist vac truck in pumping water.



Photo No. IMG_2118; Taken on 01/14/14 at 13:45 hours by START MG. look at site from road



Photo No. IMG_1127; Taken on 01/11/14 at 11:27 hours by START GN. Skimmer used by clean Harbors to skim product collected in river booms.

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. IMG_2131; Taken on 01/14/14 at 13:45 hours by START MG. RP Contractors vacuuming product from exploratory pit



Photo No. IMG_2132; Taken on 01/14/14 at 10:28 hours by START MG. Fatty acids storage tanks behind MCHM tanks



Photo No. to flip_; Taken on 01/13/14 at 14:16 hours by START GN. Boom deployed in the Elk River downstream of the tank farm



Photo No. to flip_2; Taken on 01/13/14 at 14:16 hours by START GN. Water Containment trench/sump.

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. to flip_3; Taken on 01/13/14 at 14:16 hours by START GN. Tank 396 from which release occurred.



Photo No. to flip_4; Taken on 01/13/14 at 14:17 hours by START GN. WVDEP Environmental Enforcement boat.



Photo No. to flip_5; Taken on 01/13/14 at 14:17 hours by START GN. Drainage path to river from storm water culvert.



Photo No. to flip_6; Taken on 01/13/14 at 14:17 hours by START GN. Drainage path to river from storm water culvert.

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. to flip_7; Taken on 01/13/14 at 14:31 hours by START GN. Water leaking from storm water pipe below tank farm.

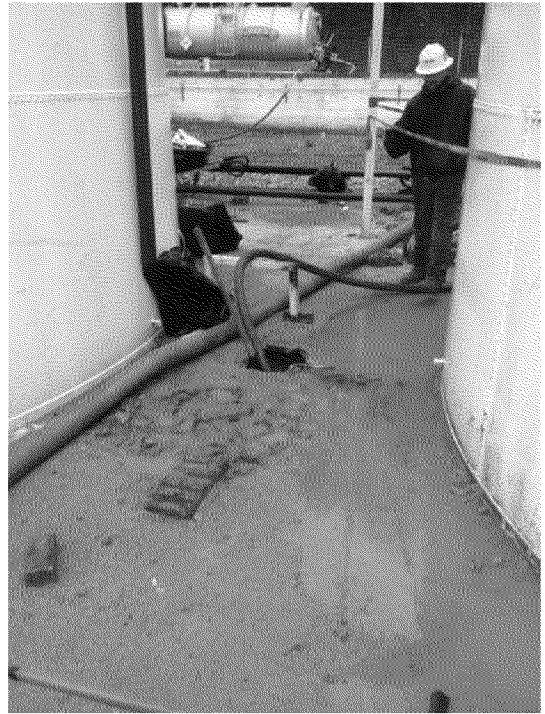


Photo No. to flip_8; Taken on 01/13/14 at 10:53 hours by START GN. Vacuuming water from sump in tank containment pad.



Photo No. SAM_1597; Taken on 01/13/14 at 13:16 hours by START MD. Equipment staged for containment pond improvements



Photo No. SAM_1598; Taken on 01/13/14 at 13:20 hours by START MD. Geoprobe taking core sample at foot of slope below breached tank

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1599; Taken on 01/13/14 at 13:20 hours by
START MD. Cutting of faulty storm drain



Photo No. SAM_1600; Taken on 01/13/14 at 13:20 hours by
START MD. Cutting of faulty storm drain



Photo No. SAM_1601; Taken on 01/13/14 at 13:20 hours by
START MD. Cutting of faulty storm drain



Photo No. SAM_1602; Taken on 01/13/14 at 13:21 hours by
START MD. Improvements being made to the containment pond

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1603; Taken on 01/13/14 at 13:22 hours by START MD . Absorbent boom placed in discharge of the storm drain



Photo No. SAM_1604; Taken on 01/13/14 at 13:22 hours by START MD . Cutting of faulty storm drain



Photo No. SAM_1605; Taken on 01/13/14 at 13:24 hours by START MD. Cutting of faulty storm drain



Photo No. SAM_1606; Taken on 01/13/14 at 13:25 hours by START MD. Cutting of faulty storm drain

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1607; Taken on 01/13/14 at 13:36 hours by START MD. Removal of section of faulty storm drain



Photo No. SAM_1608; Taken on 01/13/14 at 13:36 hours by START MD. Inside of breached tank



Photo No. SAM_1609; Taken on 01/13/14 at 13:36 hours by START MD. Inside of breached tank



Photo No. SAM_1610; Taken on 01/13/14 at 13:37 hours by START MD. Inside of breached tank

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1612; Taken on 01/13/14 at 13:37 hours by START MD. Inside of breached tank



Photo No. SAM_1613; Taken on 01/13/14 at 13:38 hours by START MD. Look at man entrance into breached tank



Photo No. SAM_1614; Taken on 01/13/14 at 13:38 hours by START MD. Product surfacing in exploratory pit under edge of the breached tank

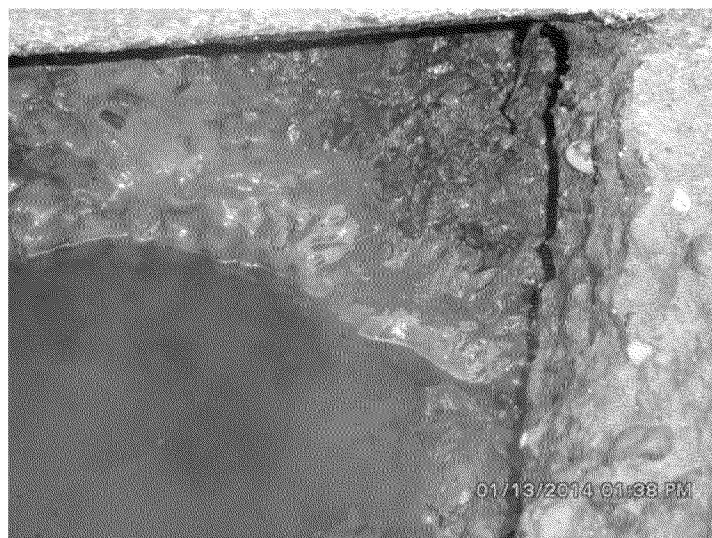


Photo No. SAM_1615; Taken on 01/13/14 at 13:38 hours by START MD. Product seeping out from under breached tank

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001

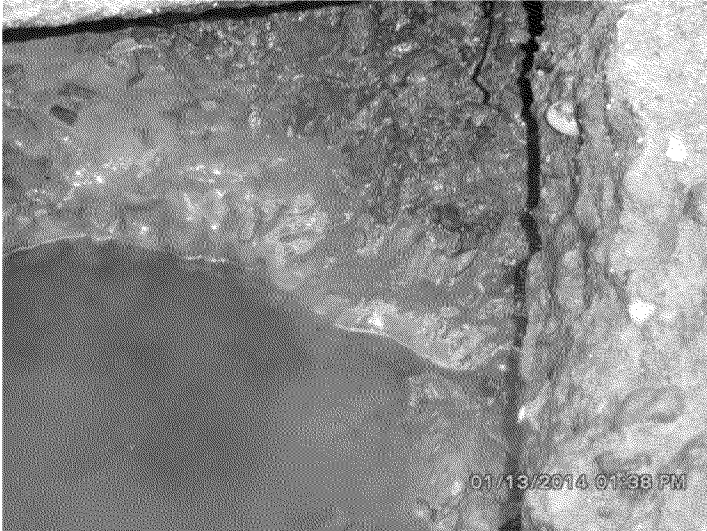


Photo No. SAM_1616; Taken on 01/13/14 at 13:38 hours by START MD. Product seeping out from under breached tank



Photo No. SAM_1617; Taken on 01/13/14 at 13:39 hours by START MD. Product seeping out from under breached tank



Photo No. SAM_1618; Taken on 01/13/14 at 13:39 hours by START MD. Product in exploratory pit under edge of breached tank



Photo No. SAM_1619; Taken on 01/13/14 at 13:40 hours by START MD. Water collecting between tanks and containment wall

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1620; Taken on 01/13/14 at 13:41 hours by
START MD. underground gas line marked in containment area

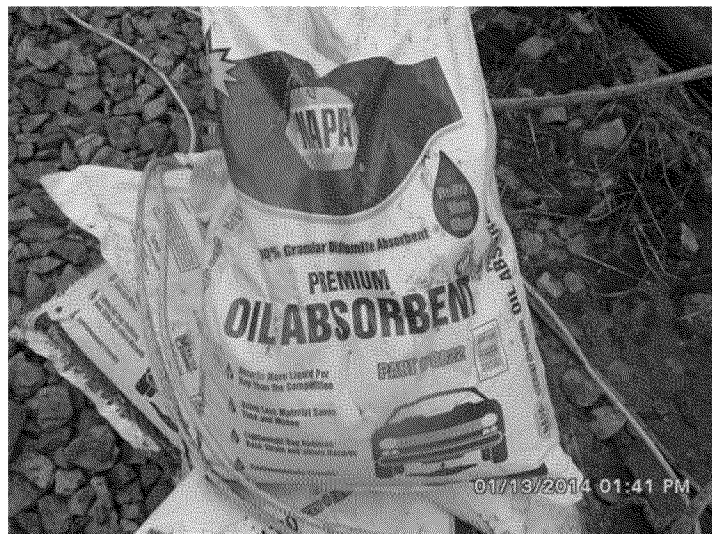


Photo No. SAM_1621; Taken on 01/13/14 at 13:42 hours by
START MD. Absorbent material being used



Photo No. SAM_1622; Taken on 01/13/14 at 13:43 hours by
START MG. Geoprobe crew installing monitoring well



Photo No. SAM_1623; Taken on 01/13/14 at 13:48 hours by
START MG. Installation of monitoring well below breached
tank

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1624; Taken on 01/13/14 at 14:37 hours by START MG. Workers building sump area under storm drain pipe



Photo No. SAM_1625; Taken on 01/13/14 at 14:37 hours by START MG. Pump being put in place in containment pond



Photo No. SAM_1626; Taken on 01/13/14 at 14:47 hours by START MG. Pump used for evacuation of containment pond



Photo No. SAM_1627; Taken on 01/13/14 at 14:56 hours by START MG. Tarps being placed in area of breached containment wall

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1628; Taken on 01/13/14 at 15:28 hours by START MG. Geoprobe setting up to collect core sample of a second location below tanks



Photo No. SAM_1629; Taken on 01/13/14 at 17:03 hours by START MG. Tarp in place to divert storm water away from breached containment wall



Photo No. SAM_1630; Taken on 01/13/14 at 17:03 hours by START MG . Start for diking off the storm drain



Photo No. SAM_1631; Taken on 01/13/14 at 18:14 hours by START MG . Debris being removed from hillside area before liner installation

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1632; Taken on 01/13/14 at 18:14 hours by START MG. Containment dike in place and storm water being pumped from behind



Photo No. SAM_1633; Taken on 01/13/14 at 14:16 hours by START MG. Containment dike in place and storm water being pumped from behind



Photo No. SAM_1634; Taken on 01/14/14 at 9:16 hours by START MG. Steam Discharge from vac truck



Photo No. SAM_1635; Taken on 01/14/14 at 9:40 hours by START MG. Steam Discharge from vac truck

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001

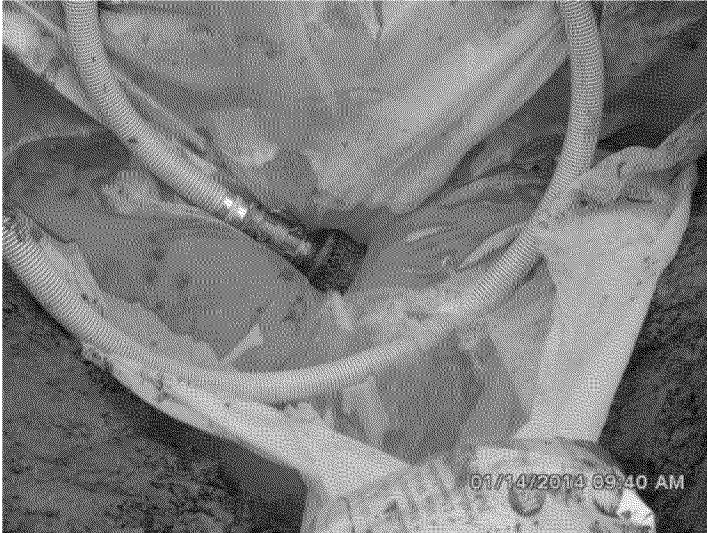


Photo No. SAM_1636; Taken on 01/14/14 at 9:40 hours by
START MG. pump in sump area below drainage pipe



Photo No. SAM_1637; Taken on 01/14/14 at 9:46 hours by
START MG. containment pond being pumped out



Photo No. SAM_1638; Taken on 01/14/14 at 9:46 hours by
START MG. storm water laying inside containment area



Photo No. SAM_1639; Taken on 01/14/14 at 9:47 hours by
START MG. Storm drain discharge water being pumped back
into containment area

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1640; Taken on 01/14/14 at 9:48 hours by START MG. Storm drain discharge water being pumped back into containment area



Photo No. SAM_1641; Taken on 01/14/14 at 9:49 hours by START MG. Tarps in place to divert storm runoff from breached containment wall



Photo No. SAM_1642; Taken on 01/14/14 at 10:01 hours by START MG. Tarps in place to divert storm runoff from breached containment wall



Photo No. SAM_1643; Taken on 01/14/14 at 10:30 hours by START MG. Plastic and tarps being used to funnel water down the hill into the collection trench/pond

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. IMG_2135; Taken on 01/14/14 at 10:28 hours by
START MG. Attorney General Office Investigator taking photo
inside of the tank

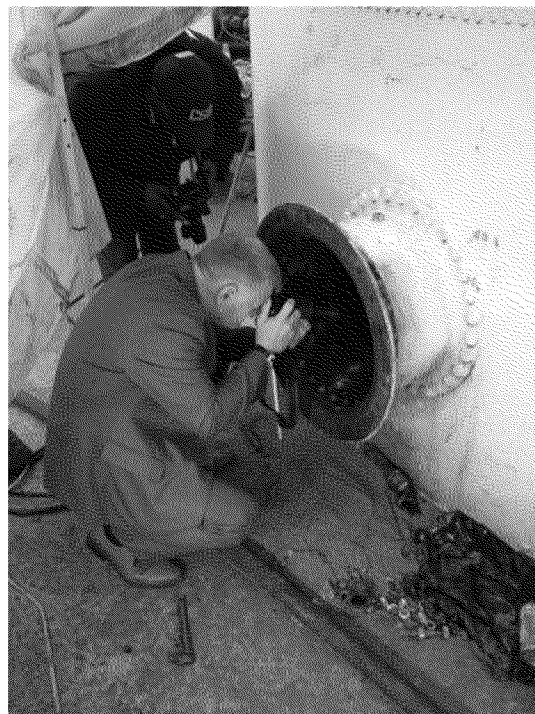


Photo No. IMG_2136; Taken on 01/14/14 at 10:28 hours by
START MG. Attorney General Office Investigator taking photo
inside of the tank



Photo No. IMG_2137; Taken on 01/14/14 at 13:30 hours by
START MG. Attorney General Office Investigator taking photo
inside of the tank



Photo No. SAM_1644; Taken on 01/14/14 at 10:39 hours by
START MG. RP and Attorney General Investigator looking into
breached tank

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1645; Taken on 01/14/14 at 10:41 hours by START MG. Photo inside the tank



Photo No. SAM_1646; Taken on 01/14/14 at 10:41 hours by START MG. CSB investigator taking picture inside the tank



Photo No. SAM_1647; Taken on 01/14/14 at 10:41 hours by START MG. CSB investigator taking picture inside the tank



Photo No. SAM_1648; Taken on 01/14/14 at 10:42 hours by START MG. CSB investigator taking picture inside the tank

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1649; Taken on 01/14/14 at 10:42 hours by
START MG. Attorney General Investigator taking picture inside
the tank



Photo No. SAM_1650; Taken on 01/14/14 at 10:42 hours by
START MG. Attorney General Investigator taking picture inside
the tank

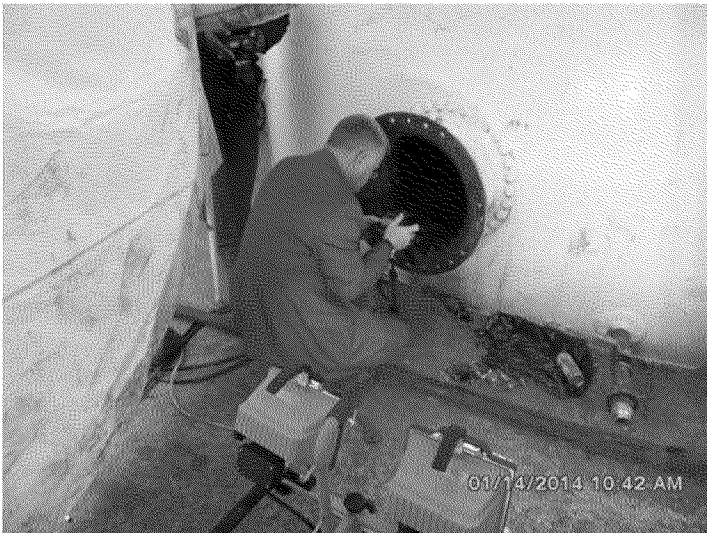


Photo No. SAM_1651; Taken on 01/14/14 at 10:42 hours by
START MG. Attorney General Investigator taking picture inside
the tank



Photo No. SAM_1652; Taken on 01/14/14 at 10:47 hours by
START MG. Attorney General Investigator taking picture inside
the tank

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1653; Taken on 01/14/14 at 10:48 hours by START MG. CSB investigator taking picture inside the tank



Photo No. SAM_1654; Taken on 01/14/14 at 10:53 hours by START MG. Attorney General Investigator taking picture inside the tank



Photo No. SAM_1655; Taken on 01/14/14 at 10:54 hours by START MG. CSb and Attorney General investigators taking picture in the tank



Photo No. SAM_1656; Taken on 01/14/14 at 10:54 hours by START MG. Vacuum hose in exploratory pit under the edge of the breached tank

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1657; Taken on 01/14/14 at 10:54 hours by START MG. Vacuum hose in exploratory pit under the edge of the breached tank



Photo No. SAM_1658; Taken on 01/14/14 at 10:54 hours by START MG. Pipe discharge been pumped from the sump under the pipe back into the containment area



Photo No. SAM_1659; Taken on 01/14/14 at 10:59 hours by START MG. Pipe discharge been pumped from the sump under the pipe back into the containment area



Photo No. SAM_1660; Taken on 01/14/14 at 11:02 hours by START MG. Sheen on storm water under walkway into containment area

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1661; Taken on 01/14/14 at 11:02 hours by START MG. CSB and Attorney General investigators examining the top of tank



Photo No. SAM_1662; Taken on 01/14/14 at 11:02 hours by START MG. CSB and Attorney General investigators photographing the top of the tank



Photo No. SAM_1663; Taken on 01/14/14 at 11:03 hours by START MG. Attorney General Investigator photographing a seam on top of the breached tank



Photo No. SAM_1664; Taken on 01/14/14 at 11:03 hours by START MG. RP contractors marking a monitoring well location on the access road

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1665; Taken on 01/14/14 at 11:04 hours by START MG. CSB investigator point out rust spot on top of tank



Photo No. SAM_1666; Taken on 01/14/14 at 11:06 hours by START MG. CSB investigator point out rust spot on top of tank

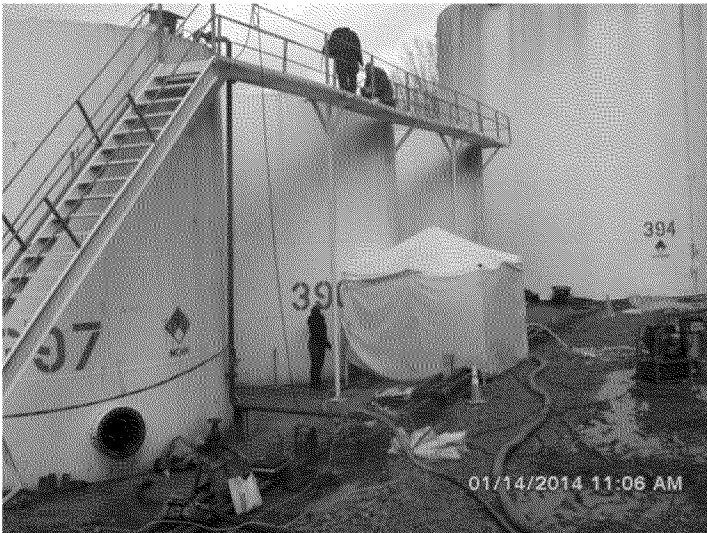


Photo No. SAM_1667; Taken on 01/14/14 at 11:06 hours by START MG. CSB investigators measuring the height of the tank

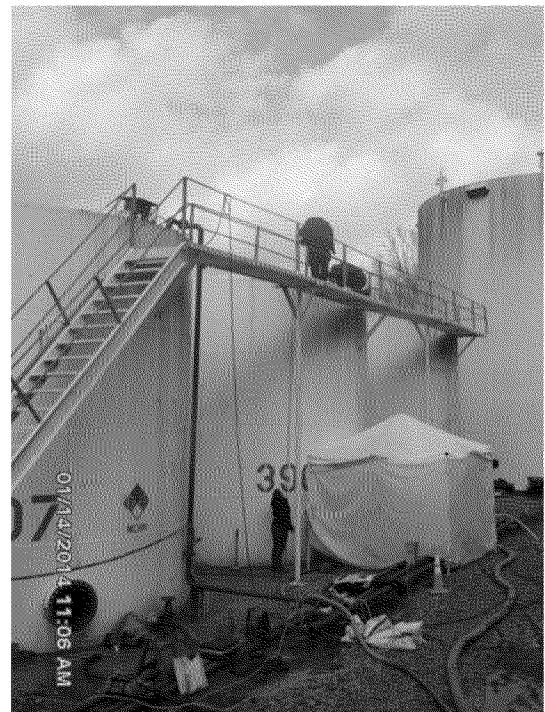


Photo No. SAM_1668; Taken on 01/14/14 at 11:08 hours by START MG. CSB investigators measuring the height of the tank

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1669; Taken on 01/14/14 at 11:08 hours by START MG. RP Contractors draining and rolling up the old liner in the containment pond



Photo No. SAM_1670; Taken on 01/14/14 at 11:09 hours by START MG. Attorney General and CSB Investigators looking at top of tank next to breached tank



Photo No. SAM_1671; Taken on 01/14/14 at 12:46 hours by START MG. Attorney General and CSB Investigators looking at top of tank next to breached tank



Photo No. SAM_1672; Taken on 01/14/14 at 12:57 hours by START MG. Old Liner material in collection pond fully removed

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1673; Taken on 01/14/14 at 13:04 hours by START MG. Track hoe moving into make improvements to start the collection trench and pond



Photo No. SAM_1674; Taken on 01/14/14 at 13:15 hours by START MG. View of river boom location modifications based on USCG review

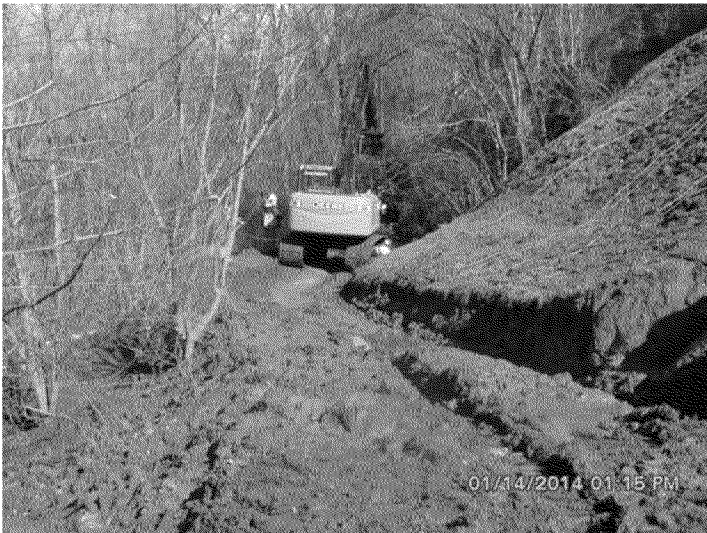


Photo No. SAM_1675; Taken on 01/14/14 at 13:44 hours by START MG. Track hoe digging out collection trench



Photo No. IMG_2138; Taken on 01/14/14 at 13:34 hours by START MG. US OSHA Inspectors touring the site

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. IMG_2139; Taken on 01/14/14 at 13:35 hours by START MG. Improvements being made to the collection trench



Photo No. IMG_2140; Taken on 01/14/14 at 13:44 hours by START MG. Perspective view - collection trench upgrades being implemented



Photo No. IMG_2141; Taken on 01/14/14 at 13:50 hours by START MG. View of collection trench improvements being implemented



Photo No. SAM_1676; Taken on 01/14/14 at 13:45 hours by START MG. New liner material being unrolled on collection trench/pond area

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1677; Taken on 01/14/14 at 13:48 hours by START MG. New liner material being unrolled on collection trench/pond area



Photo No. SAM_1678; Taken on 01/14/14 at 13:52 hours by START MG. Collection pond area being enlarged

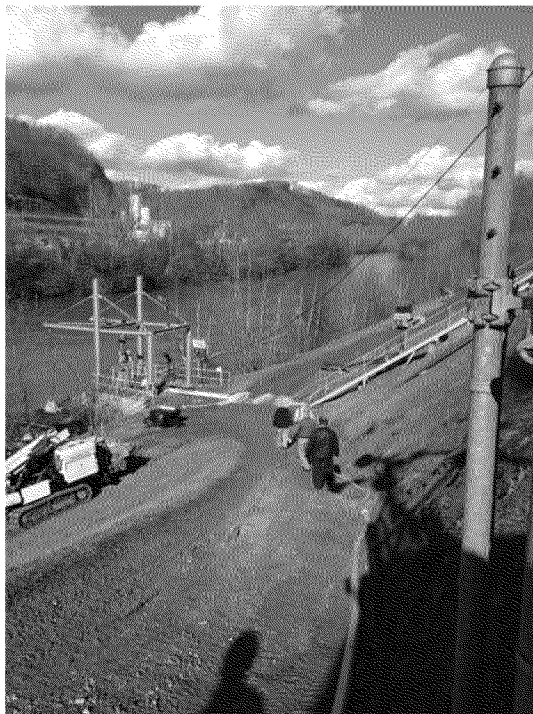


Photo No. IMG_2142; Taken on 01/14/14 at 9:15 hours by START MG. Unknow individuals walking down to the dock area



Photo No. SAM_1679; Taken on 01/14/14 at 13:52 hours by START MG . RP contractors unrolling liner

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1680; Taken on 01/14/14 at 13:54 hours by
START MG. RP contractors unrolling liner



Photo No. SAM_1681; Taken on 01/14/14 at 14:05 hours by
START MG. RP contractors unrolling liner



Photo No. SAM_1682; Taken on 01/14/14 at 14:09 hours by
START MG. Liner material being drug into place



Photo No. SAM_1683; Taken on 01/14/14 at 14:09 hours by
START MG. RP contractors unfolding liner in trench

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1684; Taken on 01/14/14 at 14:11 hours by
START MG. liner being unfolded and pulled up hill



Photo No. SAM_1685; Taken on 01/14/14 at 14:11 hours by
START MG. liner being unfolded and pulled up hill



Photo No. SAM_1686; Taken on 01/14/14 at 14:17 hours by
START MG. RP contractors unfolding liner and pulling it up the
hill



Photo No. SAM_1687; Taken on 01/14/14 at 14:21 hours by
START MG. RP contractors unfolding liner and pulling it up the
hill

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1688; Taken on 01/14/14 at 14:32 hours by START MG. RP contractors unfolding liner and pulling it up the hill



Photo No. SAM_1689; Taken on 01/14/14 at 14:32 hours by START MG. RP contractors unfolding liner and pulling it up the hill



Photo No. SAM_1690; Taken on 01/14/14 at 14:34 hours by START MG. RP contractors unfolding liner and pulling it up the hill



Photo No. SAM_1691; Taken on 01/14/14 at 14:34 hours by START MG. Extent north (upstream) of trench liner upgrade installation

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1692; Taken on 01/14/14 at 14:44 hours by START MG. View of collection trench liner being spread across grade of hillside



Photo No. SAM_1693; Taken on 01/14/14 at 14:45 hours by START MG. RP contractor diverting water discharge from the pipe onto the liner



Photo No. SAM_1694; Taken on 01/14/14 at 15:59 hours by START MG. Pump being moved into place to remove water from liner



Photo No. SAM_1695; Taken on 01/14/14 at 16:04 hours by START MG. Booms in place along river bank

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1696; Taken on 01/14/14 at 16:04 hours by START MG. Look up hill at pipe discharge



Photo No. SAM_1697; Taken on 01/14/14 at 16:05 hours by START MG. Collection trench/containment pond improvements complete



Photo No. SAM_1698; Taken on 01/14/14 at 16:06 hours by START MG. discharge being examined above the collection trench



Photo No. SAM_1699; Taken on 01/14/14 at 16:17 hours by START MG. RP contractor smoothing up the road

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1700; Taken on 01/14/14 at 16:18 hours by
START MG. RP contractor adjusting hard booms along bank



Photo No. SAM_1701; Taken on 01/14/14 at 16:21 hours by
START MG. Improved sump setup under pipe discharge



Photo No. SAM_1702; Taken on 01/14/14 at 16:41 hours by
START MG. RP contractors adjusting booms



Photo No. SAM_1703; Taken on 01/14/14 at 16:42 hours by
START MG. RP contractors adjusting booms

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1704; Taken on 01/14/14 at 17:39 hours by START MG. RP contractors adjusting booms



Photo No. SAM_1705; Taken on 01/14/14 at 17:39 hours by START MG. RP contractor air monitoring in place for confined space entry into tank



Photo No. SAM_1708; Taken on 01/14/14 at 17:41 hours by START MG. Air monitor used for confined space entry



Photo No. SAM_1709; Taken on 01/14/14 at 17:45 hours by START MG. CSB and Attorney General Investigators photographing the RP contractor taking photos inside of the tank

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1710; Taken on 01/14/14 at 17:47 hours by
START MG. RP contractor exiting the tank after taking pictures



Photo No. SAM_1711; Taken on 01/14/14 at 17:48 hours by
START MG. RP contractor and CSB/Attorney General
Investigators looking at the top of the tank



Photo No. SAM_1712; Taken on 01/14/14 at 9:04 hours by
START MG. CSB and RP contractor discussing venting on top
of the tank



Photo No. SAM_1713; Taken on 01/15/14 at 9:10 hours by
START MG. Sump still moving discharge back into containment
area

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1714; Taken on 01/15/14 at 9:24 hours by
START MG. RP Contractors changing out absorbent booms



Photo No. SAM_1715; Taken on 01/15/14 at 9:26 hours by
START MG. Product surfacing in exploratory pit

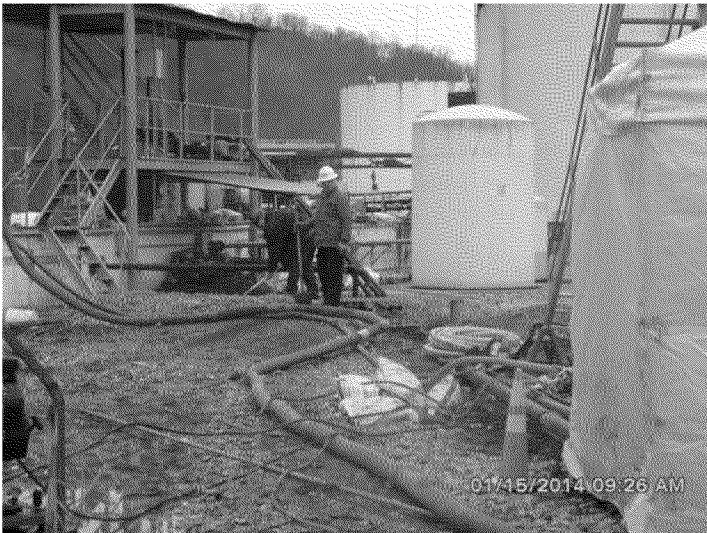


Photo No. SAM_1716; Taken on 01/15/14 at 9:26 hours by
START MG. gravel being spread around walk way



Photo No. SAM_1717; Taken on 01/15/14 at 10:30 hours by
START MG. gravel being spread around walk way

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1718; Taken on 01/15/14 at 10:30 hours by
START MG. Morning meeting



Photo No. SAM_1719; Taken on 01/15/14 at 10:30 hours by
START MG. Morning meeting



Photo No. SAM_1720; Taken on 01/15/14 at 10:33 hours by
START MG. Morning meeting



Photo No. SAM_1721; Taken on 01/15/14 at 10:33 hours by
START MG. discussion of days plans

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1722; Taken on 01/15/14 at 10:34 hours by
START MG. discussion of days plans

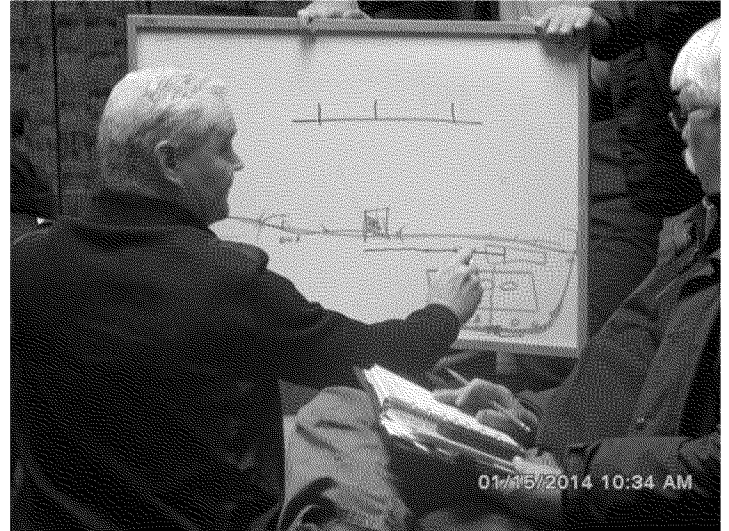


Photo No. SAM_1723; Taken on 01/15/14 at 10:36 hours by
START MG. discussion of days plans

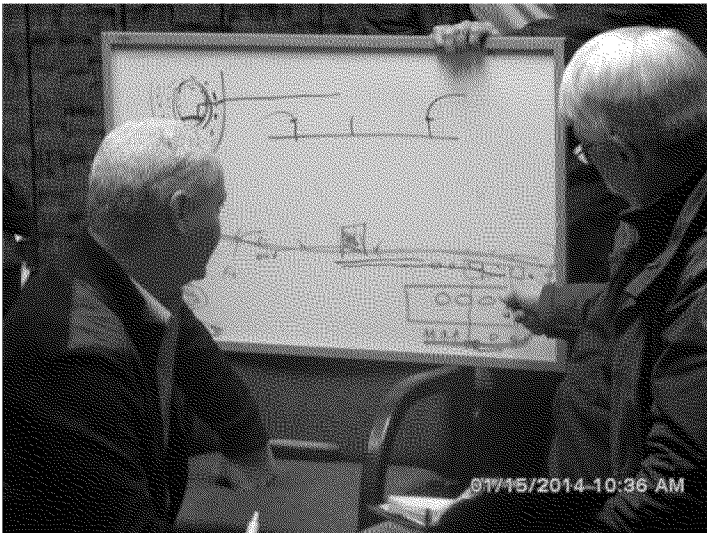


Photo No. SAM_1724; Taken on 01/15/14 at 10:38 hours by
START MG. discussion of days plans



Photo No. SAM_1725; Taken on 01/15/14 at 10:39 hours by
START MG. discussion of days plans

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1726; Taken on 01/15/14 at 10:39 hours by
START MG. Drawing of water entering site



Photo No. SAM_1727; Taken on 01/15/14 at 10:41 hours by
START MG. Drawing of water entering site

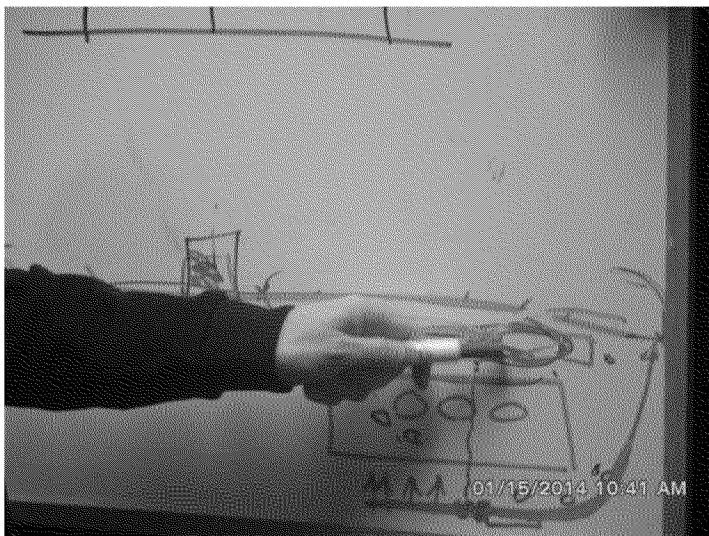


Photo No. SAM_1728; Taken on 01/15/14 at 10:41 hours by
START MG. Discussion of collection pond



Photo No. SAM_1729; Taken on 01/15/14 at 11:01 hours by
START MG. Discussion of collection pond

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1730; Taken on 01/15/14 at 11:01 hours by
START MG. Introduction of US FWS representative



Photo No. SAM_1731; Taken on 01/15/14 at 11:01 hours by
START MG. Introduction of US FWS representative



Photo No. SAM_1732; Taken on 01/15/14 at 11:30 hours by
START MG. Introduction of US FWS representative



Photo No. SAM_1733; Taken on 01/15/14 at 11:35 hours by
START MG. Product in exploratory pit

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1734; Taken on 01/15/14 at 11:35 hours by START MG. Absorbent boom along side brick building



Photo No. SAM_1735; Taken on 01/15/14 at 11:35 hours by START MG. Absorbent boom along side brick building



Photo No. SAM_1736; Taken on 01/15/14 at 11:39 hours by START MG. Tarps diverting rain water from contaminated soil outside of the containment area



Photo No. SAM_1737; Taken on 01/15/14 at 11:39 hours by START MG. Absorbent boom placed in front of dock

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1738; Taken on 01/15/14 at 11:41 hours by START MG . Booming locations south of the boat dock



Photo No. SAM_1739; Taken on 01/15/14 at 11:42 hours by START MG . Absorbent boom placed around outfall from the oil/water separator



Photo No. SAM_1740; Taken on 01/15/14 at 11:43 hours by START MG. Booming on the south end of the site



Photo No. SAM_1741; Taken on 01/15/14 at 12:27 hours by START MG. Booming on the south end of the site

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1742; Taken on 01/15/14 at 12:30 hours by START MG . Gravel spread under walk way as per OSHA instructions



Photo No. SAM_1743; Taken on 01/15/14 at 12:51 hours by START MG. Water being pumped from behind containment wall



Photo No. SAM_1744; Taken on 01/15/14 at 12:56 hours by START MG . RP contractors installing cross booming



Photo No. SAM_1745; Taken on 01/15/14 at 13:02 hours by START MG. RP contractors anchoring cross booming

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1746; Taken on 01/15/14 at 14:24 hours by
START MG. RP contractors installing silt fencing



Photo No. SAM_1747; Taken on 01/15/14 at 14:24 hours by
START MG. Boom placed at bottom of slope where product was
found



Photo No. SAM_1748; Taken on 01/15/14 at 14:53 hours by
START MG. Surface runoff at North end of the site



Photo No. SAM_1749; Taken on 01/15/14 at 15:05 hours by
START MG. Bore hole in the containment pad

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1750; Taken on 01/15/14 at 15:05 hours by START MG. Cement placed along the inside of the containment wall



Photo No. SAM_1751; Taken on 01/15/14 at 15:06 hours by START MG. Water diversion tarping being adjusted



Photo No. SAM_1752; Taken on 01/15/14 at 15:14 hours by START MG . Bentonite/cement mix being used to seal breaches in the containment wall



Photo No. SAM_1753; Taken on 01/15/14 at 15:14 hours by START MG. Product still surfacing in exploratory under edge of the tank

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1754; Taken on 01/15/14 at 15:14 hours by START MG. Product still surfacing in exploratory under edge of the tank

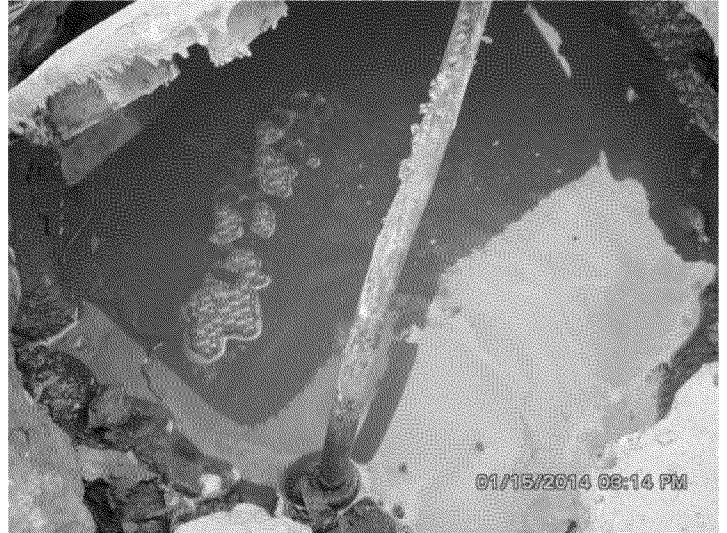


Photo No. SAM_1755; Taken on 01/15/14 at 15:28 hours by START MG. Product surfacing in exploratory pit between the tanks



Photo No. SAM_1756; Taken on 01/15/14 at 15:28 hours by START MG. Silt fence installation area



Photo No. SAM_1757; Taken on 01/15/14 at 15:32 hours by START MG. Silt fence installation area

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1758; Taken on 01/15/14 at 15:32 hours by
START MG. Location of WV DEP sample



Photo No. SAM_1759; Taken on 01/15/14 at 15:48 hours by
START MG. Location of WV DEP sample



Photo No. SAM_1760; Taken on 01/15/14 at 15:49 hours by
START MG . Booming in place at the north end of the site



Photo No. SAM_1761; Taken on 01/15/14 at 16:02 hours by
START MG. Area where surface run off is traveling down hill
on the gas line entering the site

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1762; Taken on 01/15/14 at 16:03 hours by START MG. Lower monitoring well location under the cone - North end of site



Photo No. SAM_1763; Taken on 01/15/14 at 16:04 hours by START MG. Lower monitoring well location under the cone - Middle of the site



Photo No. SAM_1764; Taken on 01/15/14 at 16:04 hours by START MG. Lower monitoring well location under the cone - on bench



Photo No. SAM_1765; Taken on 01/15/14 at 16:05 hours by START MG. Lower monitoring well location - south end of the site

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1766; Taken on 01/15/14 at 16:06 hours by
START MG. safety fence being installed



Photo No. SAM_1767; Taken on 01/15/14 at 16:06 hours by
START MG. safety fence being installed



Photo No. SAM_1768; Taken on 01/15/14 at 16:13 hours by
START MG. safety fence being installed



Photo No. SAM_1769; Taken on 01/15/14 at 16:13 hours by
START MG. Upper Monitoring well location - South

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001

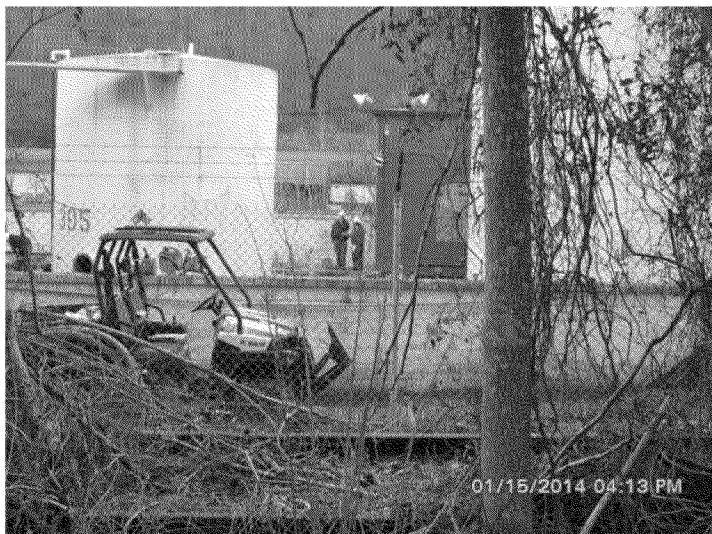


Photo No. SAM_1770; Taken on 01/15/14 at 16:14 hours by
START MG. Upper Monitoring well location - Middle



Photo No. SAM_1771; Taken on 01/15/14 at 16:21 hours by
START MG . Upper Monitoring well location - North



Photo No. SAM_1772; Taken on 01/15/14 at 16:23 hours by
START MG . Roll off being delivered

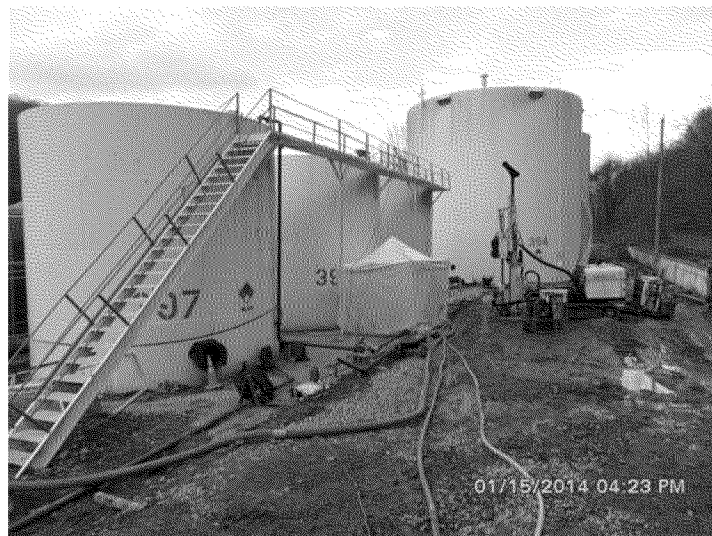


Photo No. SAM_1773; Taken on 01/15/14 at 16:24 hours by
START MG. Geoprobe location in containment area

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1774; Taken on 01/15/14 at 16:27 hours by
START MG. Waiting to process core sample from containment
area



Photo No. SAM_1775; Taken on 01/15/14 at 16:39 hours by
START MG. Processing of core sample from containment area



Photo No. SAM_1776; Taken on 01/15/14 at 16:40 hours by
START MG. Safety fence installation



Photo No. SAM_1777; Taken on 01/15/14 at 14:18 hours by
START MG. Safety fence installation

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1778; Taken on 01/16/14 at 8:55 hours by
START MG. installation of safety fence



Photo No. SAM_1779; Taken on 01/16/14 at 9:06 hours by
START MG. Clearing of woody vegetation on the northern end
of the site

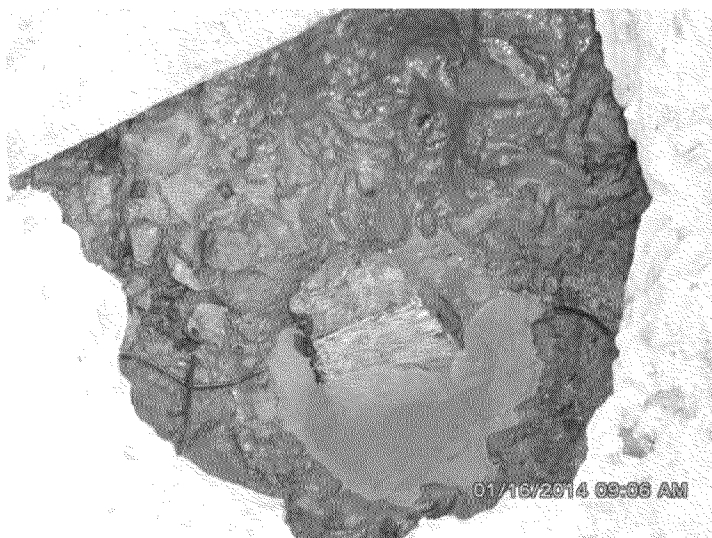


Photo No. SAM_1780; Taken on 01/16/14 at 9:09 hours by
START MG. Product still seeping from under the storage tank



Photo No. SAM_1783; Taken on 01/16/14 at 10:34 hours by
START MG. standing water along outside of the containment
wall has been removed

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1784; Taken on 01/16/14 at 10:34 hours by
START MG. Morning meeting



Photo No. SAM_1785; Taken on 01/16/14 at 10:48 hours by
START MG. Morning meeting



Photo No. SAM_1786; Taken on 01/16/14 at 10:51 hours by
START MG. Morning meeting



Photo No. SAM_1787; Taken on 01/16/14 at 11:41 hours by
START MG. Morning meeting

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1788; Taken on 01/16/14 at 11:41 hours by
START MG. Morning meeting



Photo No. SAM_1789; Taken on 01/16/14 at 12:51 hours by
START MG. Sump installed to collect surface runoff



Photo No. SAM_1790; Taken on 01/16/14 at 12:57 hours by
START MG. Sump installed to collect surface runoff



Photo No. SAM_1791; Taken on 01/16/14 at 12:57 hours by
START MG. Safety fence installation

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1792; Taken on 01/16/14 at 13:45 hours by
START MG. Silt Fence installation



Photo No. SAM_1793; Taken on 01/16/14 at 13:49 hours by
START MG. Completed safety and silt fencing on south end of
the site



Photo No. SAM_1794; Taken on 01/16/14 at 13:49 hours by
START MG. Safety and silt fence installation on the north end of
the site



Photo No. SAM_1795; Taken on 01/16/14 at 13:49 hours by
START MG. Woody vegetation removal continues

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1796; Taken on 01/16/14 at 13:50 hours by
START MG. Maintenance of the booming



Photo No. SAM_1797; Taken on 01/16/14 at 14:09 hours by
START MG. Safety fence location in relation to the riverbank



Photo No. SAM_1798; Taken on 01/16/14 at 14:09 hours by
START MG. Sampling of north monitoring well



Photo No. SAM_1799; Taken on 01/16/14 at 14:09 hours by
START MG. Sampling of north monitoring well

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1800; Taken on 01/16/14 at 14:12 hours by
START MG. Sampling of north monitoring well



Photo No. SAM_1801; Taken on 01/16/14 at 14:13 hours by
START MG. Subcontractors removing woody vegetation



Photo No. SAM_1802; Taken on 01/16/14 at 14:13 hours by
START MG. Subcontractors removing woody vegetation



Photo No. SAM_1803; Taken on 01/16/14 at 14:13 hours by
START MG. Subcontractors removing woody vegetation

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1804; Taken on 01/16/14 at 14:15 hours by START MG. RP contractors rolling up liner to expand collection trench



Photo No. SAM_1805; Taken on 01/16/14 at 14:16 hours by START MG. Sampling of north monitoring well



Photo No. SAM_1806; Taken on 01/16/14 at 14:17 hours by START MG. Sampling of north monitoring well



Photo No. SAM_1807; Taken on 01/16/14 at 14:24 hours by START MG. Sampling of north monitoring well

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1808; Taken on 01/16/14 at 14:28 hours by START MG. preparations for trench expansion



Photo No. SAM_1809; Taken on 01/16/14 at 14:54 hours by START MG . WV DOH working to divert run off water from the site



Photo No. SAM_1810; Taken on 01/16/14 at 15:01 hours by START MG. moving equipment in for expansion of the collection trench



Photo No. SAM_1811; Taken on 01/16/14 at 15:05 hours by START MG. Installed safety fence

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1812; Taken on 01/16/14 at 15:08 hours by
START MG. Sampling of the middle monitoring well



Photo No. SAM_1813; Taken on 01/16/14 at 15:15 hours by
START MG. Expansion of the collection trench



Photo No. SAM_1814; Taken on 01/16/14 at 15:16 hours by
START MG. Expansion of the collection trench



Photo No. SAM_1815; Taken on 01/16/14 at 15:18 hours by
START MG. Expansion of the collection trench

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1816; Taken on 01/16/14 at 15:28 hours by
START MG. Expansion of the collection trench



Photo No. SAM_1817; Taken on 01/16/14 at 15:30 hours by
START MG. Expansion of the collection trench



Photo No. SAM_1818; Taken on 01/16/14 at 15:32 hours by
START MG. Expansion of the collection trench



Photo No. SAM_1819; Taken on 01/16/14 at 17:07 hours by
START MG . Collection trench improvements

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1820; Taken on 01/16/14 at 17:15 hours by
START MG. Collection trench improvements



Photo No. SAM_1821; Taken on 01/16/14 at 17:16 hours by
START MG. Lining of the collection trench



Photo No. SAM_1822; Taken on 01/16/14 at 17:20 hours by
START MG. Lining of the collection trench



Photo No. SAM_1823; Taken on 01/16/14 at 17:20 hours by
START MG. Lining of the collection trench

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1824; Taken on 01/16/14 at 17:21 hours by
START MG. Lining of the collection trench



Photo No. SAM_1825; Taken on 01/16/14 at 17:21 hours by
START MG. Expansion of the collection trench



Photo No. SAM_1826; Taken on 01/16/14 at 9:33 hours by
START MG. Expansion of the collection trench



Photo No. IMG_1156; Taken on 01/17/14 at 9:33 hours by
START GN. A view of the hole in the bottom of the tank, from
under the tank.

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. IMG_1157; Taken on 01/17/14 at 9:35 hours by
START GN. A view of the hole in the bottom of the tank, from
under the tank.



Photo No. IMG_1158; Taken on 01/17/14 at 9:41 hours by
START GN. GeprobeTM unit owned by Enviroprobe.



Photo No. IMG_1159; Taken on 01/17/14 at 10:42 hours by
START GN. GeprobeTM unit with demolished tent.



Photo No. IMG_1160; Taken on 01/17/14 at 10:46 hours by
START GN. Bailer of groundwater retrieved from monitoring
well MW-4.

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. IMG_1161; Taken on 01/17/14 at 10:49 hours by START GN. Bailer of groundwater retrieved from monitoring well MW-3.



Photo No. IMG_1162; Taken on 01/17/14 at 10:49 hours by START GN. Poly-lined water collection trench/sump.



Photo No. IMG_1163; Taken on 01/17/14 at 10:49 hours by START GN. Water discharging from storm water culvert from under tank farm.



Photo No. IMG_1164; Taken on 01/17/14 at 10:56 hours by START GN. Water discharging from storm water culvert from under tank farm.

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. IMG_1165; Taken on 01/17/14 at 11:00 hours by START GN. Bailer of groundwater retrieved from monitoring well MW-5.



Photo No. IMG_1167; Taken on 01/17/14 at 11:00 hours by START GN. Bailer of groundwater retrieved from monitoring well MW-6.



Photo No. IMG_1168; Taken on 01/17/14 at 11:38 hours by START GN. Bailer of groundwater retrieved from monitoring well MW-6.



Photo No. IMG_1169; Taken on 01/17/14 at 11:38 hours by START GN. MW-7 in facility roadway on east side of tank farm.

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. IMG_1170; Taken on 01/17/14 at 11:39 hours by
START GN. MW-7 in facility roadway on east side of tank farm.



Photo No. IMG_1171; Taken on 01/17/14 at 11:41 hours by
START GN. MW-2 in facility roadway on east side of tank farm.



Photo No. IMG_1172; Taken on 01/17/14 at 11:42 hours by
START GN. MW-1 location in facility roadway on east side of
tank farm.

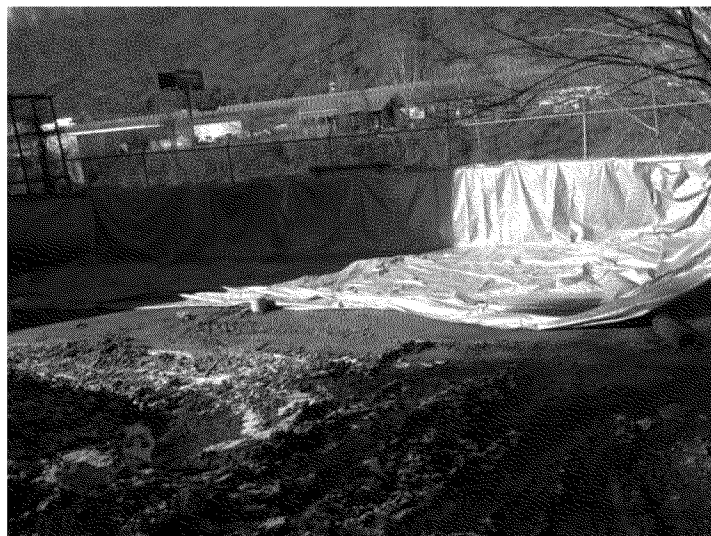


Photo No. IMG_1173; Taken on 01/17/14 at 12:30 hours by
START GN. Tarp placed in northwest corner of tank
containment area.

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. IMG_1174; Taken on 01/17/14 at 12:30 hours by START GN. Pump intake in water collection trench/sump.



Photo No. IMG_1175; Taken on 01/17/14 at 12:33 hours by START GN. Product floating on surface of water in water collection trench/sump.

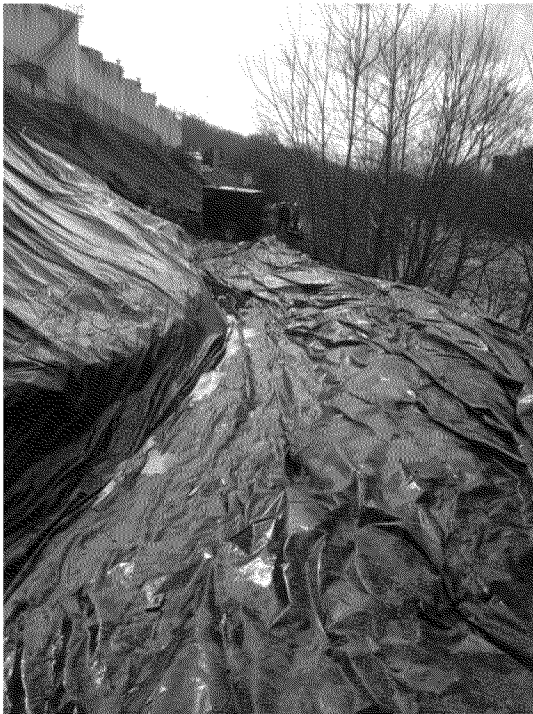


Photo No. IMG_1176; Taken on 01/17/14 at 12:33 hours by START GN. Pump set up at water collection trench/sump.



Photo No. IMG_1177; Taken on 01/17/14 at 14:24 hours by START GN. Northern end of water collection trench.

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. IMG_1178; Taken on 01/17/14 at 14:24 hours by START GN. Disturbed soil above water collection trench.



Photo No. IMG_1179; Taken on 01/17/14 at 14:36 hours by START GN. Disturbed soil above water collection trench.



Photo No. IMG_1180; Taken on 01/17/14 at 15:10 hours by START GN. Geotextile fabric placed in roadway before gravelled.

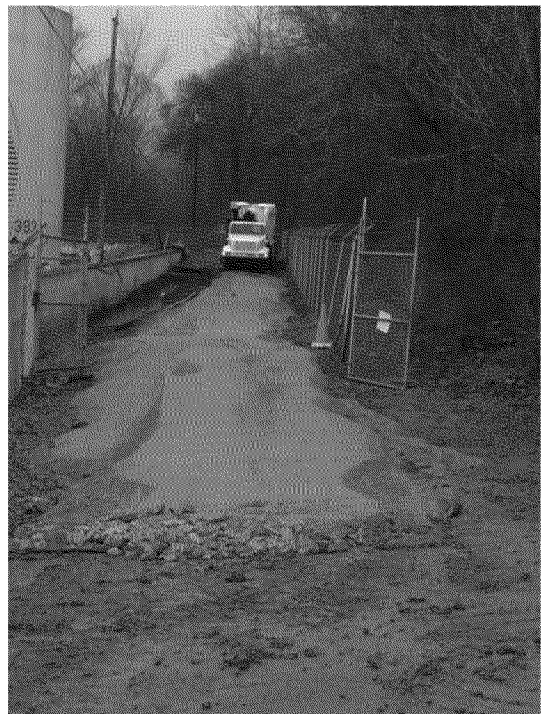


Photo No. IMG_1181; Taken on 01/17/14 at 15:26 hours by START GN. Gravel placed on fabric in roadway.

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001

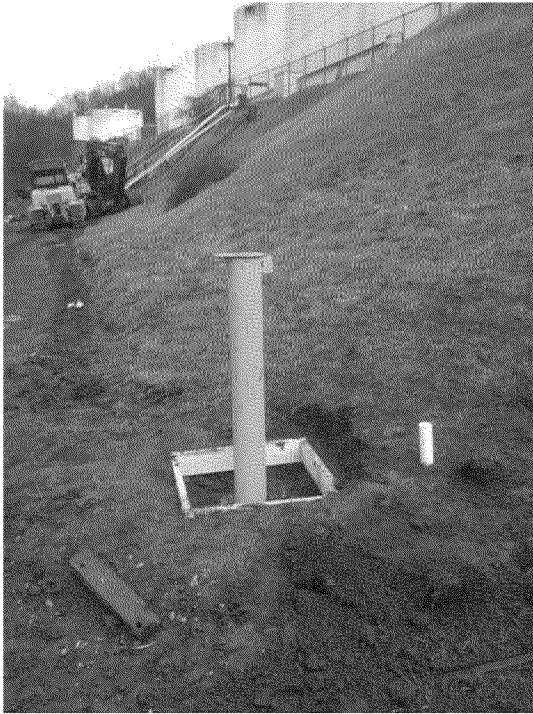


Photo No. IMG_1182; Taken on 01/17/14 at 15:29 hours by START GN. Steel casing installed for MW-6.

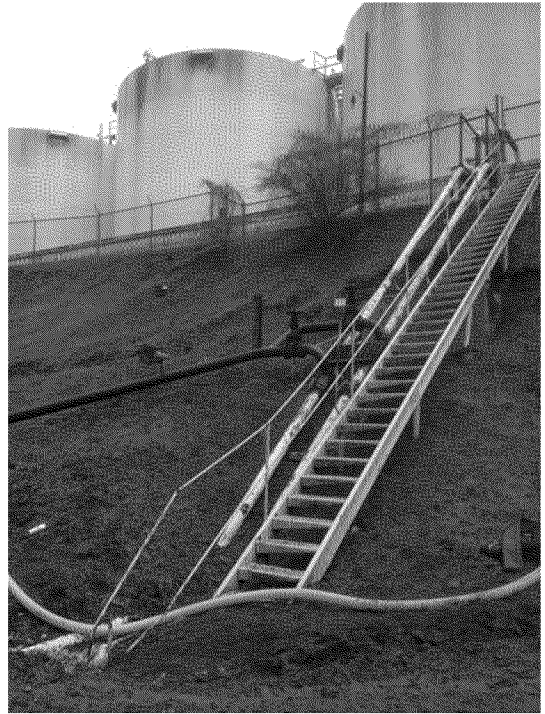


Photo No. IMG_1183; Taken on 01/17/14 at 15:29 hours by START GN. Steel casing installed for MW-5.



Photo No. IMG_1184; Taken on 01/17/14 at 15:31 hours by START GN. Steel casing installed for MW-5.



Photo No. IMG_1185; Taken on 01/17/14 at 15:33 hours by START GN. Steel casing installed for MW-4.

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. IMG_1186; Taken on 01/17/14 at 10:58 hours by
START GN. Steel casing installed for MW-3.



Photo No. IMG_1187; Taken on 01/18/14 at 10:58 hours by
START GN. Pocahontas Blending facility.

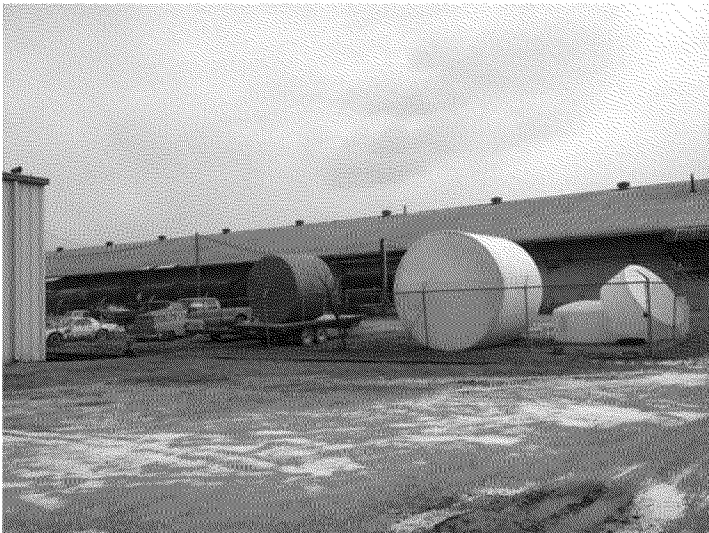


Photo No. IMG_1188; Taken on 01/18/14 at 11:03 hours by
START GN. Pocahontas Blending facility.



Photo No. IMG_1189; Taken on 01/18/14 at 11:03 hours by
START GN. Baker tanks leased by Freedom Industries staged at
Pocahontas Blending facility.

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. IMG_1190; Taken on 01/18/14 at 11:04 hours by START GN. Baker tanks leased by Freedom Industries staged at Poca Blending facility.



Photo No. IMG_1191; Taken on 01/18/14 at 11:04 hours by START GN. Baker tanks leased by Freedom Industries staged at Poca Blending facility.



Photo No. IMG_1192; Taken on 01/18/14 at 11:04 hours by START GN. Baker tanks leased by Freedom Industries staged at Poca Blending facility.



Photo No. IMG_1193; Taken on 01/18/14 at 11:06 hours by START GN. Baker tanks leased by Freedom Industries staged at Poca Blending facility.

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001

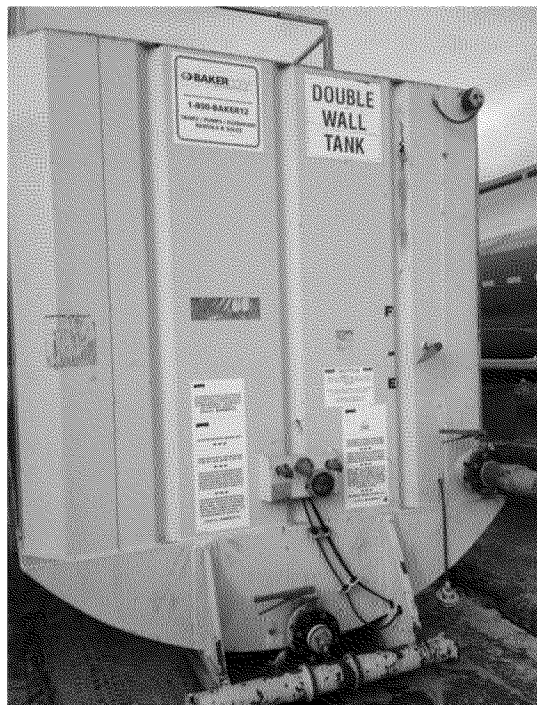


Photo No. IMG_1194; Taken on 01/18/14 at 11:06 hours by START GN. Double-wall Baker tank containing Freedom Industries material staged at Poca Blending facility.



Photo No. IMG_1195; Taken on 01/18/14 at 11:06 hours by START GN. Baker tanks leased by Freedom Industries staged at Poca Blending facility.



Photo No. IMG_1196; Taken on 01/18/14 at 11:06 hours by START GN. Baker tanks leased by Freedom Industries staged at Poca Blending facility.

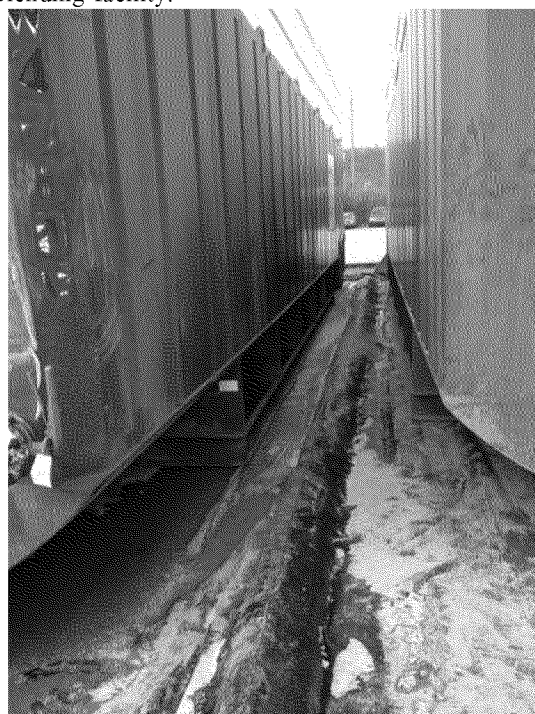


Photo No. IMG_1197; Taken on 01/18/14 at 11:06 hours by START GN. Baker tanks leased by Freedom Industries staged at Poca Blending facility.

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. IMG_1198; Taken on 01/18/14 at 11:07 hours by START GN. Baker tanks leased by Freedom Industries staged at Poca Blending facility.



Photo No. IMG_1199; Taken on 01/18/14 at 12:00 hours by START GN. Baker tanks leased by Freedom Industries staged at Poca Blending facility.

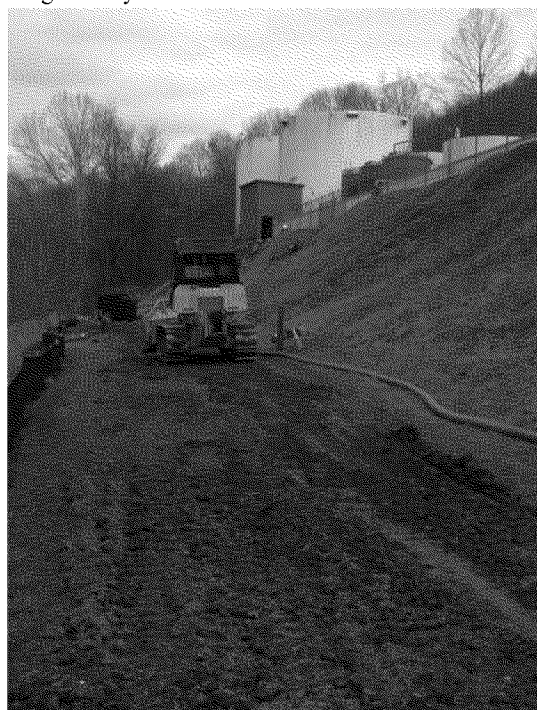


Photo No. IMG_1200; Taken on 01/18/14 at 12:14 hours by START GN. Dozer preparing bench area to construct gravel road.



Photo No. IMG_1201; Taken on 01/18/14 at 12:15 hours by START GN. Seep area north of water collection trench.

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. IMG_1202; Taken on 01/18/14 at 12:16 hours by START GN. Hillside near reported original release area.



Photo No. IMG_1203; Taken on 01/18/14 at 12:17 hours by START GN. Water seeping out of hillside into trench.



Photo No. IMG_1204; Taken on 01/18/14 at 12:21 hours by START GN. Water seeping out of hillside into trench.



Photo No. IMG_1205; Taken on 01/18/14 at 10:56 hours by START GN. Water seeping out of hillside into trench.

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. IMG_1206, IMG_1207; Taken on 01/19/14 by START MD. The contractor excavated a and laid a road way along the river.

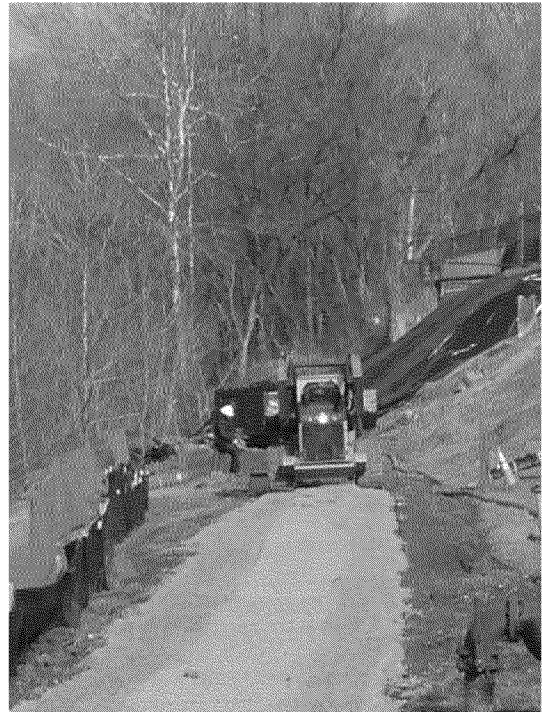


Photo No. IMG_1606; Taken on 01/19/14 at 11:00 hours by START MD. The contractor excavated a trench inside the wall of the containment area and discovered a compromised corrugated pipe that runs under the site.

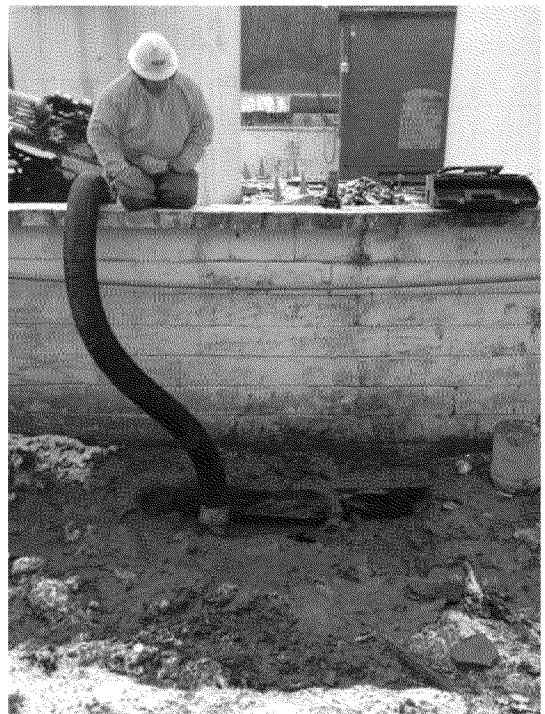


Photo No. IMG_1610; Taken on 01/19/14 at 11:05 hours by START MD. Contractors continue to pump water from the unknown source located just outside the containment wall.

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. IMG_1619; Taken on 01/19/14 at 11:16 hours by START MD. Standing at the corner of the containment wall, looking down at the Elk River, the trench is visible and has been extended to contain the newly discovered "seep."



Photo No. IMG_1622; Taken on 01/19/14 at 11:16 hours by START MD. The trench at the northeastern end of the facility is currently successfully collecting the drainage from the containment area.



Photo No. SAM_1827; Taken on 01/20/14 at 10:47 hours by START MD. DEP, EPA, and facility representatives walk the trench along the site to determine the best direction to re-direct clean water from outside the site to avoid further contamination.

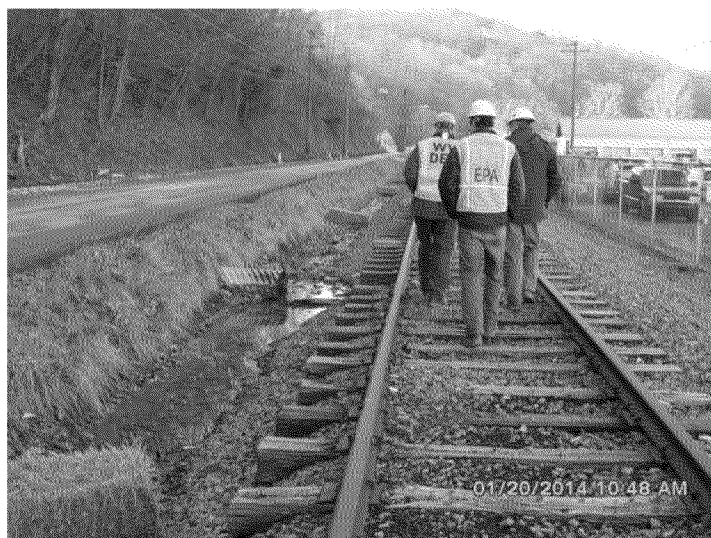


Photo No. SAM_1829; Taken on 01/20/14 at 10:48 hours by START MD. DEP, EPA, and facility representatives walk the trench along the site to determine the best direction to re-direct clean water from outside the site to avoid further contamination.

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1830; Taken on 01/20/14 at 11:01 hours by START MD. DEP, EPA, and facility representatives walk the trench along the site to determine the best direction to re-direct clean water from outside the site to avoid further contamination.



Photo No. SAM_1831; Taken on 01/20/14 at 11:01 hours by START MD. DEP, EPA, and facility representatives walk the trench along the site to determine the best direction to re-direct clean water from outside the site to avoid further contamination.



Photo No. SAM_1832; Taken on 01/20/14 at 11:03 hours by START MD. DEP, EPA, and facility representatives walk the trench along the site to determine the best direction to re-direct clean water from outside the site to avoid further contamination.



Photo No. SAM_1833; Taken on 01/20/14 at 11:04 hours by START MD. DEP, EPA, and facility representatives walk the trench along the site to determine the best direction to re-direct clean water from outside the site to avoid further contamination.

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1834; Taken on 01/20/14 at 11:06 hours by START MD. DEP, EPA, and facility representatives walk the trench along the site to determine the best direction to re-direct clean water from outside the site to avoid further contamination.



Photo No. SAM_1835; Taken on 01/20/14 at 11:06 hours by START MD. DEP, EPA, and facility representatives walk the trench along the site to determine the best direction to re-direct clean water from outside the site to avoid further contamination.



Photo No. SAM_1836; Taken on 01/20/14 at 11:10 hours by START MD. DEP, EPA, and facility representatives walk the trench along the site to determine the best direction to re-direct clean water from outside the site to avoid further contamination.



Photo No. SAM_1838; Taken on 01/20/14 at 11:15 hours by START MD. Product visible as a sheen on the water in one of the excavated holes.

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1847; Taken on 01/20/14 at 11:39 hours by START MD. DEP, EPA, and facility representatives walk the trench along the site to determine the best direction to re-direct clean water from outside the site to avoid further contamination.

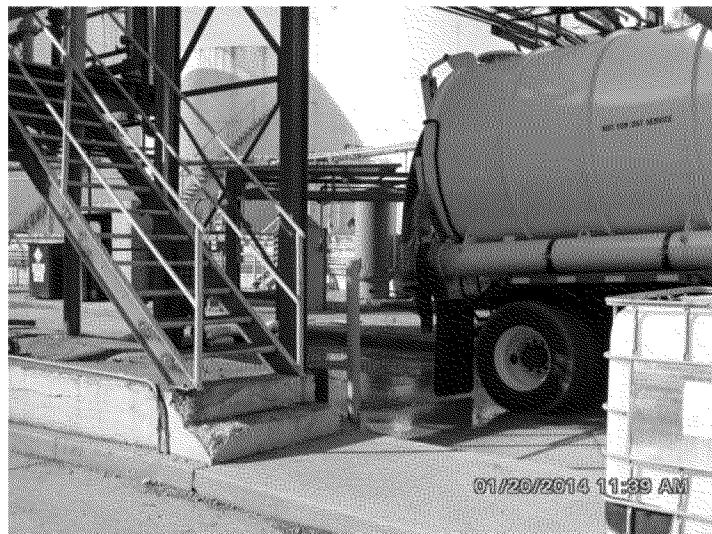


Photo No. SAM_1848; Taken on 01/20/14 at 11:39 hours by START MD. Water being decanted from the soil in the tank of the super soaker truck



Photo No. SAM_1849; Taken on 01/20/14 at 11:39 hours by START MD. Water being decanted from the soil in the tank of the super soaker truck



Photo No. SAM_1850; Taken on 01/20/14 at 11:39 hours by START MD. Water being decanted from the soil in the tank of the super soaker truck

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1851; Taken on 01/20/14 at 11:43 hours by START MD. Water being decanted from the soil in the tank of the super soaker truck



Photo No. SAM_1852; Taken on 01/20/14 at 11:14 hours by START MD. The barrier stops any soil from leaving the containment area. The water that enters the drain is directed to the oil-water separator.

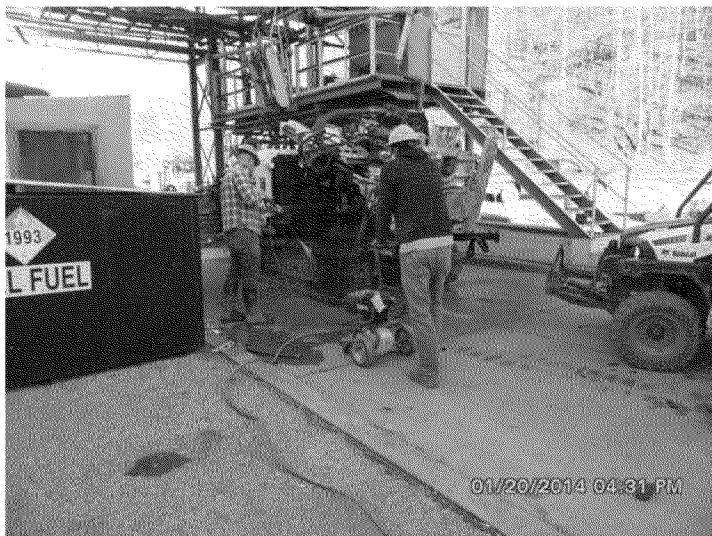


Photo No. SAM_1854; Taken on 01/20/14 at 16:32 hours by START MD. Contractors decon the Geoprobe.



Photo No. SAM_1855; Taken on 01/20/14 at 16:33 hours by START MD. A vac truck hooked up and pumping water.

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1856; Taken on 01/20/14 at 15:33 hours by START MD. A vac truck hooked up and pumping water.

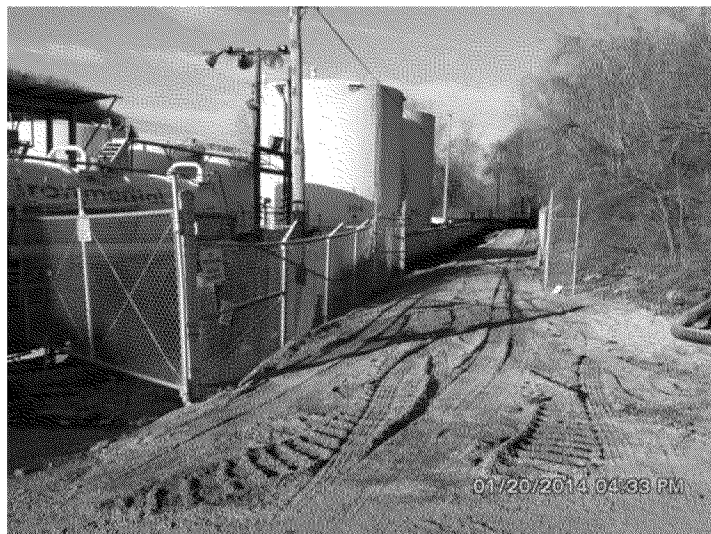


Photo No. SAM_1857; Taken on 01/20/14 at 16:34 hours by START MD. The access road outside the fence of the facility.



Photo No. SAM_1858; Taken on 01/20/14 at 16:26 hours by START MD. Contractors excavate the area outside the site to locate the source of the off-site water.



Photo No. SAM_1859; Taken on 01/20/14 at 16:36 hours by START MD. Contractors excavate the area outside the site to locate the source of the off-site water.

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. SAM_1860; Taken on 01/20/14 at 16:41 hours by START MD. Contractors excavate the area outside the site to locate the source of the off-site water.



Photo No. SAM_1861; Taken on 01/20/14 at 0:00 hours by START MD. (Rotated) The contractor oversees the excavation of the off site water source excavation.



Photo No. IMG_1208; Taken on 01/21/14 at 11:17 hours by START GN. Concrete pad and new facility well MW-1



Photo No. IMG_1209; Taken on 01/21/14 at 11:17 hours by START GN. Extension of water collection trench to collect water from seep.

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. IMG_1210; Taken on 01/21/14 at 14:03 hours by START GN. Extension of water collection trench to collect water from seep.



Photo No. IMG_1211; Taken on 01/21/14 at 14:03 hours by START GN. Enviroprobe preparing to pour concrete pad for MW in roadway.



Photo No. IMG_1212; Taken on 01/21/14 at 8:21 hours by START GN. Enviroprobe preparing to pour concrete pad for MW in roadway.



Photo No. IMG_1213; Taken on 01/22/14 at 8:28 hours by START GN. Vacuuming water from sump on east side of Tank containment wall.

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. IMG_1214; Taken on 01/22/14 at 15:04 hours by START GN. Water collection trench below culvert.



Photo No. IMG_1215; Taken on 01/22/14 at 15:05 hours by START GN. Accumulated water in sump dug at dilapidated culvert.



Photo No. IMG_1216; Taken on 01/22/14 at 15:05 hours by START GN. Frozen water and product in hole where release reportedly occurred.

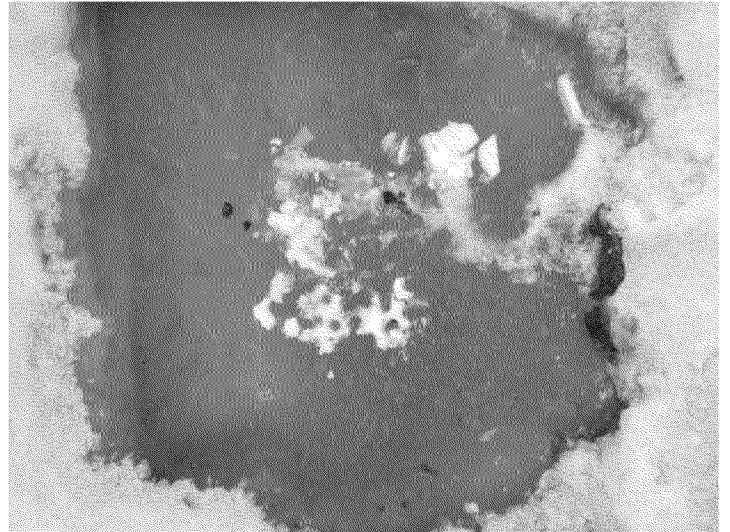


Photo No. IMG_1217; Taken on 01/22/14 at 15:29 hours by START GN. Product on top of ice in hole by tank where release occurred.

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. IMG_1218; Taken on 01/22/14 at 15:29 hours by START GN. Water spraying from leak in hose caused by skid steer. Water in hose was pumped from water collection trench.



Photo No. IMG_1219; Taken on 01/22/14 at 8:21 hours by START GN. Water spraying from leak in hose caused by skid steer. Water in hose was pumped from water collection trench.



Photo No. IMG_1226; Taken on 01/24/14 at 11:42 hours by START GN. Ice covered water in collection trench



Photo No. IMG_1227; Taken on 01/24/14 at 14:32 hours by START GN. Ice cover on Elk River

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001

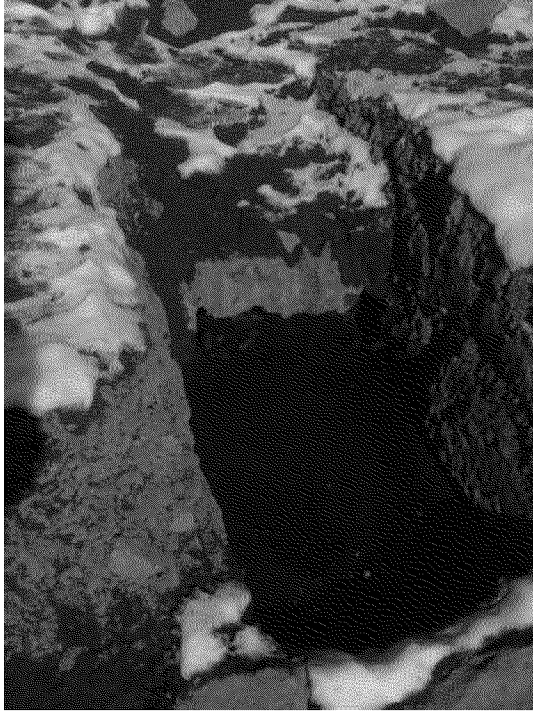


Photo No. IMG_1228; Taken on 01/24/14 at 14:40 hours by START GN. Water in sump dug at dilapidated culvert inside tank containment area.



Photo No. IMG_1229; Taken on 01/24/14 at 14:40 hours by START GN. Water flowing in north end of the water containment trench.



Photo No. IMG_1230; Taken on 01/24/14 at 14:57 hours by START GN. Water flowing in north end of the water containment trench.



Photo No. IMG_1231; Taken on 01/24/14 at 0:00 hours by START GN. Ice cover on Elk River

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. IMG_1220; Taken on 01/23/14 at 8:22 hours by START GN. Ice covered water in collection trench

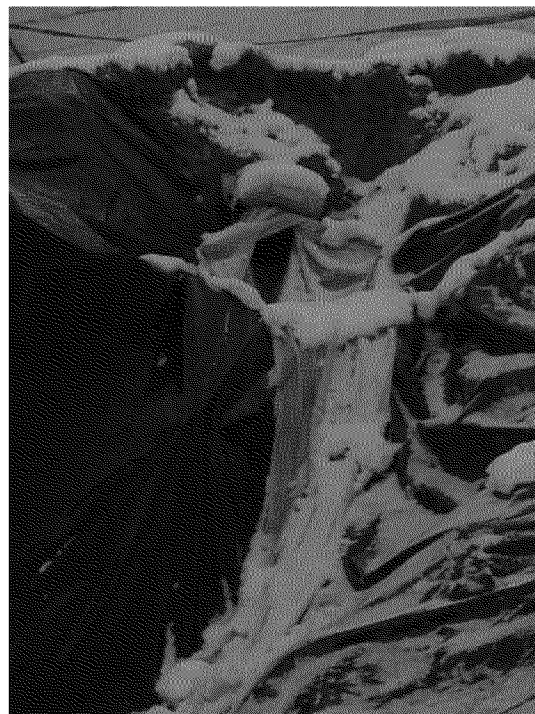


Photo No. IMG_1221; Taken on 01/23/14 at 11:53 hours by START GN. Water flow from storm culvert on hillside.



Photo No. IMG_1222; Taken on 01/23/14 at 11:53 hours by START GN. Baker Tank at Poca Blending where sample of MCHM/PPH mixture was collected.

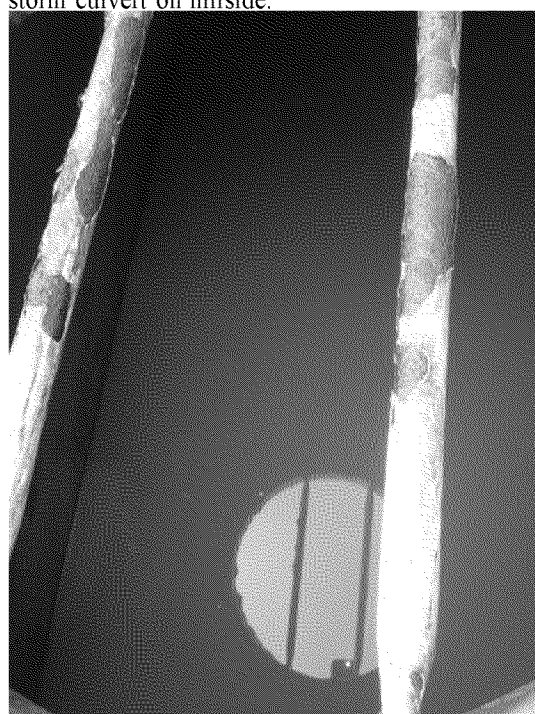


Photo No. IMG_1223; Taken on 01/23/14 at 13:48 hours by START GN. Material in Baker Tank at Poca Blending where sample of MCHM/PPH mixture was collected.

West Virginia Chemical Leak
Etowah, Kanawha County, West Virginia
TDD No TL01-14-01-001



Photo No. IMG_1224; Taken on 01/23/14 at 13:51 hours by START GN. Water in sump dug at dilapidated culvert inside tank containment area.



Photo No. IMG_1225; Taken on 01/23/14 at 11:42 hours by START GN. Ice covered water in collection trench